SHADY SIDE
ACADEMY

**COUNTRY DAY SCHOOL
IN FOX CHAPEL**
620 Squaw Run Road East
Pittsburgh, PA 15238
412-963-8644

Dear Second Grade Families,

Congratulations to your child for completing a full year of math learning! This year in second grade, the students grew and developed their mathematical thinking and problem solving skills. They also used the foundational skills they learned in second grade to expand their thinking and problem solving skills. We focused on the process of how problems are solved and explored the most efficient and accurate math strategies to help us find our answers.

The purpose of this packet is for your rising third grader to maintain their skills over the summer. You and your child may decide the areas that need revisited and create a schedule to sustain learning and practice over the summer. The completion of this packet is not required, but it may provide you with a resource to practice skills that were covered in second grade. These concepts include:

- Numbers to 1,000
- Addition and subtraction up to and from 1,000
- Multiplication and division
- Multiplication tables of 2, 3, 4, 5, 10
- Using bar models for addition and subtraction
- Time
- Fractions
- Mental math strategies
- Money

In addition to the math packet, your child may also benefit from using these resources.

IXL.com/math- Students can gain fluency and confidence in math. IXL helps students master essential skills at their own pace through fun and interactive questions, built in support, and motivating awards.

splashlearn.com- Students practice math skills through a personalized learning path and interactive games.

Have a fun summer, and I look forward to seeing you in August!

Warmly,
Laura Greif
Third Grade Teacher

Cumulative Review

for Chapters 1 to 4

Concepts and Skills

Write in standard form.

1. Seven hundred sixteen _____

2. Four hundred five _____

Count on or count back.
Find the missing numbers.

3. 820, 810, 800, _____, _____, _____

4. 600, 700, 800, _____, _____

5. 500, 400, 300, _____, _____, _____

Find the missing numbers.

6. In 632, the digit _____ is in the tens place.

7. In 591, the digit 5 is in the _____ place.

8. 743 = 700 + _____ + 3

9. 200 and 2 make _____.

Write > or <.

10. 235 ◯ 325

11. 891 ◯ 889

Order the numbers from least to greatest.

12.

(690)   (106)   (815)   (699)

_____, _____, _____, _____
least

Find the missing numbers.

13.

873   883   [   ]   903   913   [   ]   933   943
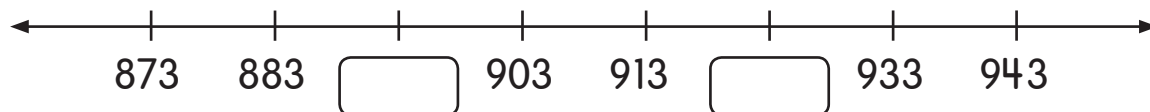
Fill in the blanks.

14.   1 more than 638 is _____.

15.   10 less than 286 is _____.

16.   100 more than 899 is _____.

17.   _____ is 1 less than 360.

18.   _____ is 10 more than 890.

19.   _____ is 100 less than 1,000.

Complete each pattern.

20.   240, 220, _____, _____, 160, _____, _____

21.   350, 390, 430, _____, _____, _____, _____

22.   _____, _____, 454, 354, 254, _____, _____

Add.

23.
```
  2 5 7
+   4 2
───────
```

24.
```
  2 3 4
+ 7 1 3
───────
```

25.
```
  7 0 8
+   3 6
───────
```

26.
```
  2 5 6
+ 1 3 8
───────
```

27.
```
  6 5 1
+ 2 8 6
───────
```

28.
```
  6 5 7
+ 1 8 5
───────
```

Subtract.

29.
```
  7 5 9
−   4 2
───────
```

30.
```
  3 6 8
− 2 1 4
───────
```

31.
```
  5 4 1
− 2 3 8
───────
```

32.
```
  4 2 7
− 1 3 4
───────
```

33.
```
  8 3 1
− 6 9 8
───────
```

34.
```
  2 0 0
−   4 8
───────
```

Subtract.
Check by adding.

35.
```
  5 1 0
− 3 8 5
───────
```
⬚
+ ⬚
───
⬚

36.
```
  4 0 8
− 2 1 9
───────
```
⬚
+ ⬚
───
⬚

Subtract.
Check by adding.

37. 400 − 57 = _____

38. 500 − 493 = _____

Find the missing numbers.

39.

$$\begin{array}{r} 2\ 5\ 6 \\ -\ \boxed{}\ 4 \\ \hline 1\ 6\ 2 \end{array}$$

40.

$$\begin{array}{r} \boxed{}\ 0\ 8 \\ +\ 3\ 9\ 9 \\ \hline 9\ 0\ 7 \end{array}$$

Problem Solving

Solve.

Draw bar models to help you.

Check your answers.

41. Manuel drives 215 miles on Monday.
He drives 685 miles on Tuesday.
How many miles does he drive in all?

He drives _____ miles in all.

42. Mrs. King has $200 in the bank.
She spends $45.
How much does she have left?

She has $_____ left.

Solve.
Draw bar models to help you.
Check your answers.

43. Jeremy has 430 black beads.
He has 50 more red beads than black beads.
How many red beads does he have?

He has _____ red beads.

44. There are 356 sheep on a farm.
There are 100 fewer cows than sheep.
How many cows are there?

There are _____ cows.

45. Mike has 515 stickers in his album.
Shateel has 488 stickers in his.
Who has more stickers?
How many more stickers?

_____ has more stickers.

_____ more stickers.

Solve.
Draw bar models to help you.
Check your answers.

46. Nick scores 715 points in a game.
He scores 100 fewer points than his sister.
How many points does his sister score?

His sister scores _____ points.

47. Beth reads for 60 minutes in the morning.
She reads for 42 minutes at night.
How many minutes does she read in all?
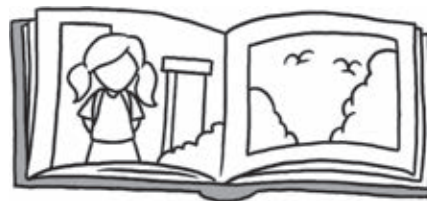
Beth reads for _____ minutes in all.

Solve.
Draw bar models to help you.
Check your answers.

48. 339 passengers are on a train.
196 of them are children.
The others are adults.
How many adults are on the train?

There are _____ adults on the train.

49. The Hat Store sold 265 caps last week.
It sold 97 fewer caps this week.
a. How many caps did the Hat Store sell this week?
b. How many caps did the Hat Store sell for the two weeks?

a. The Hat Store sold _____ caps this week.

b. The Hat Store sold _____ caps for the two weeks.

Solve.
Draw bar models to help you.
Check your answers.

50. The theater sold 343 tickets on Friday.
This is 192 fewer tickets than those sold on Saturday.
How many tickets were sold altogether?

_____ tickets were sold altogether.

51. 365 people watch a show on Monday.
78 more people watch the show on Tuesday.
105 more people watch the show on Tuesday than on Wednesday.
How many people watch the show on Wednesday?

_____ people watch the show on Wednesday.

Cumulative Review

for Chapters 5 and 6

Concepts and Skills

Draw ☺.

1. Draw 4 groups of 3 ☺.

2. Draw 3 groups of 4 ☺.

Find the missing numbers.

3. $2 + 2 + 2 + 2 + 2 + 2 =$ _____ $\times 2$

4. $3 + 3 + 3 + 3 + 3$ is _____ groups of _____.

5.

$3 \times 4 =$ _____

$12 \div$ _____ $= 3$

6.

$24 \div 3 =$ _____

$24 \div 8 =$ _____

Find the missing numbers.

7. Divide 20 socks so there are 5 socks in each group.

Subtract groups of 5 until there is nothing left.

20 − _____ − _____ − _____ − _____ = _____

Groups of five are subtracted _____ times.

20 ÷ 5 = _____

Cross out what does not belong.

8.

	7 groups of 5
5 + 5 + 5 + 5 + 5 + 5 + 5	5 sevens

9.

	Subtract groups of three 2 times.
6 − 2 − 2 − 2 = 0	6 ÷ 2 = 3

Fill in the blanks.

10. Divide 16 fruit bars equally on 4 trays.

16 ÷ _____ = _____

There are _____ fruit bars on each tray.

11. 6 bugs are on each of the 3 branches.

6 × _____ = _____

There are _____ bugs altogether.

12. Divide 20 crayons equally among 5 children.

20 ÷ _____ = _____

Each child gets _____ crayons.

Skip-count.

13. 2, 4, 6, _____, _____, _____, _____, _____, _____, _____

14. 5, 10, 15, _____, _____, _____, _____, _____, _____, _____

15. 10, 20, 30, _____, _____, _____, _____, _____, _____, _____

Fill in the blanks.

16. 2 groups of 2 = _____ × _____ = _____

17. 5 groups of 2 = _____ × _____ = _____

18. 6 groups of 5 = _____ × _____ = _____

19. 7 groups of 5 = _____ × _____ = _____

Use the dot paper to find the missing numbers.

20.

_____ × 2 = _____   _____ × _____ = _____

Name: _____   **Date:** _____

21.

| _____ × _____ = _____ | _____ × _____ = _____ |

Complete the multiplication sentences.

22. 4 × 2 = _____

2 × 4 = _____

23. 7 × 2 = _____

2 × 7 = _____

24. 3 × 5 = _____

5 × 3 = _____

25. 9 × 5 = _____

5 × 9 = _____

26. 4 × 10 = _____

10 × 4 = _____

27. 6 × 10 = _____

10 × 6 = _____

Fill in the blanks.

28. _____ × 2 = 16

29. _____ × 2 = 18

30. _____ × 5 = 40

31. _____ × 5 = 25

32. _____ × 10 = 70

33. _____ × 10 = 50

Complete the multiplication sentences.

34. _____ × 2 = 10

35. _____ × 6 = 30

36. _____ × 10 = 20

37. _____ × 10 = 70

Problem Solving

Solve.

38. A grocer sells 5 oranges in a bag.
Mr. Diaz buys 6 bags of oranges.
How many oranges does he buy in all?

He buys _____ oranges in all.

39. Shauna puts some chairs in rows of 9.
There are 2 rows of chairs.
How many chairs are there?

There are _____ chairs.

40. Ling's Travel has 10 new alarm clocks.
Each clock needs 4 batteries.
How many batteries are needed in all?

_____ batteries are needed in all.

41. There are 18 seashells.
They are divided into 2 equal groups.
How many seashells are in each group?

_____ seashells are in each group.

42. Mr. Jenkins spends $30 on books.
Each book costs $10.
How many books does Mr. Jenkins buy?

Mr. Jenkins buys _____ books.

43. The school chef has 30 mini-pizzas.
She divides them equally among a few children.
   a. If each child gets 5 mini-pizzas, how many children are there?
   b. If there are 10 children, how many mini-pizzas will each
   child get?

   a. There are _____ children.

   b. Each child will get _____ mini-pizzas.

Cumulative Review

for Chapters 10 to 12

Concepts and Skills

1. Connect the cards to show the steps for mental math.

| 64 + 8 | 64 − 8 | 84 + 6 | 84 − 6 |

| Add 10 to 64 | Subtract 10 from 64 | Add 10 to 84 | Subtract 10 from 84 |

| Subtract 2 from the result | Subtract 4 from the result | Add 2 to the result | Add 4 to the result |

| 78 | 72 | 90 | 56 |

Add mentally.

2. 352 + 4 = _____

3. 817 + 5 = _____

4. 143 + 30 = _____

5. 198 + 800 = _____

Subtract mentally.

6. 916 – 5 = _____

7. 873 – 8 = _____

8. 477 – 60 = _____

9. 858 – 400 = _____

Mark each number with an X on the number line. Then round each number to the nearest ten.

10. 76

11. 81

```
◄──┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼──►
   60        70        80        90
```

12. 123

13. 134

```
◄──┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼──►
   110       120       130       140
```
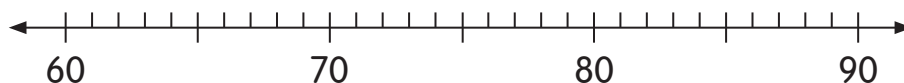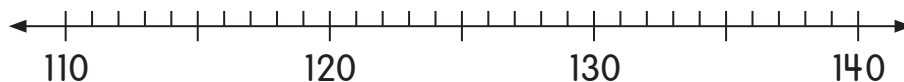
Complete.

14. Write the numbers that give 50 when rounded to the nearest ten.

_____

15. What is the least number that rounds to 10? _____

16. What is the greatest number that rounds to 80? _____

Name: _____ **Date:** _____

Add or subtract.
Round each number to the nearest ten.
Then estimate the sum or difference to check that your answer is reasonable.

17. $874 + 67 =$ _____

874 is about _____.

67 is about _____.

_____ + _____ = _____.

So, $874 + 67$ is about _____.

Is the answer reasonable? Explain.

_____

_____

18. $545 - 79 =$ _____

545 is about _____.

79 is about _____.

_____ − _____ = _____.

So, $545 - 79$ is about _____.

Is the answer reasonable? Explain.

_____

_____

Circle the bills that make the amount shown.

19.

Write the amount in numbers.

20. twenty-five cents $_____ or _____¢

21. thirty-nine dollars $_____

22. twelve dollars and ninety-seven cents $_____

Count the money.
Then write the amount each way.

23.

dollars and cents _____

cents _____

words _____

Circle the amount that is least.

24. $10.75 $7.98 $8.07

Circle the greatest amount.

25. $96.50 $96.72 $96.09

Shade the model to show the fraction.

26. $\frac{2}{3}$

27. $\frac{1}{4}$
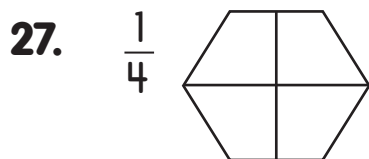
Look at the model.
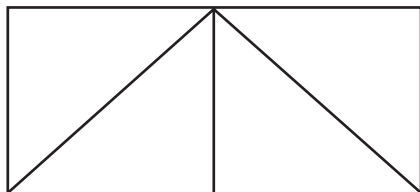
Color $\frac{1}{4}$ blue.

Color $\frac{2}{4}$ yellow.

28.   What fraction of the model is colored? _____

29.   What fraction of the model is not colored? _____

Shade each strip.
Then write the fractions in order from greatest to least.

30. $\frac{1}{3}$

$\frac{1}{2}$

$\frac{1}{4}$
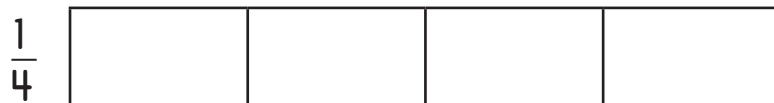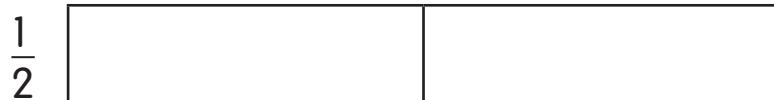
_____, _____, _____
  greatest

Write a fraction for the shaded part.

31.

_____

32.

_____

33.

_____

Name: _____ Date: _____
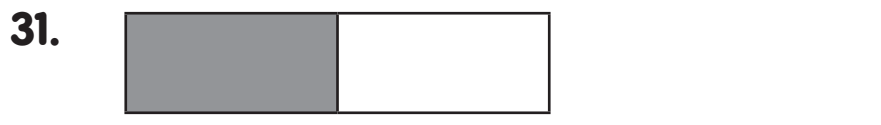
Use your answers for Exercises 31 to 33. Fill in the blanks.

34. _____ is 1 out of 2 equal parts.

35. _____ is 2 out of 3 equal parts.

36. $\dfrac{1}{2}$ is greater than _____.

37. $\dfrac{1}{2}$ is less than _____.

38. _____ is the least fraction.

Find the missing fraction.
Use models to help you.

39. Add $\dfrac{1}{3}$ and $\dfrac{1}{3}$.
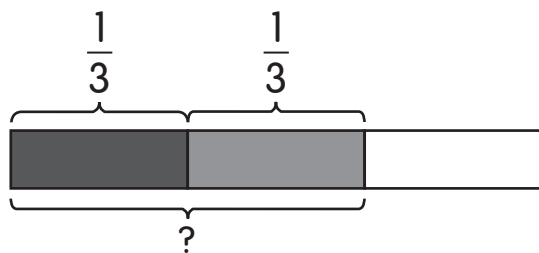
$$\dfrac{1}{3} + \dfrac{1}{3} = \underline{\hspace{2cm}}$$

40. Subtract $\dfrac{3}{4}$ from 1.
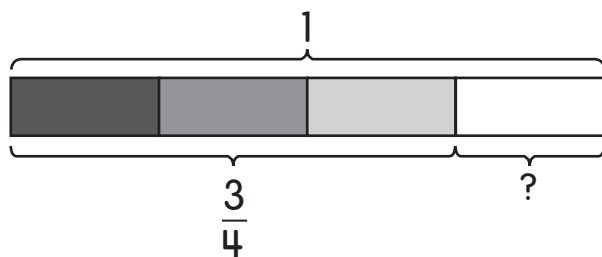
$$1 - \dfrac{3}{4} = \underline{\hspace{2cm}}$$

Solve.
Draw bar models to help you.
Estimate to check your answers.

41. Teri folds 32 pieces of paper.
Her sister folds 19 pieces.
How many pieces do they fold in all?

They fold _____ pieces in all.

42. Edwin has 83¢.
His father gives him 25¢ more.
How much does he have now?

He has $_____ now.

43. Jonas needs to deliver 34 newspapers.
He still has 11 newspapers left to deliver.
How many newspapers has he delivered?

He has delivered _____ newspapers.

44. Adam wants to buy a bat for $23 and a baseball glove for $17.
He has saved $19.
How much more money does he need?

He needs $_____ more.

45. An eraser costs 16¢ and a pencil costs 70¢.
Marian buys two erasers and a pencil.
How much does she spend?

Marian spends $_____.

46. Mrs. Barry has $200 to buy new clothes.
Round the cost of each item to the nearest ten.
Then estimate the total cost.

A pair of pants costs $44.

a. 44 is _____ when rounded to the nearest ten.

A pair of shoes costs $59.

b. 59 is _____ when rounded to the nearest ten.

A pair of socks costs $5.

c. 5 is _____ when rounded to the nearest ten.

A blouse costs $28.

d. 28 is _____ when rounded to the nearest ten.

Total cost is $_____.

Does Mrs. Barry have enough money to pay for all the items?
Explain your answer.

_____

_____

CHAPTER 14 Time

Practice 1   The Minute Hand

1.   Fill in the boxes with the number of minutes.

Fill in the blanks.

> The minute hand is longer than the hour hand.
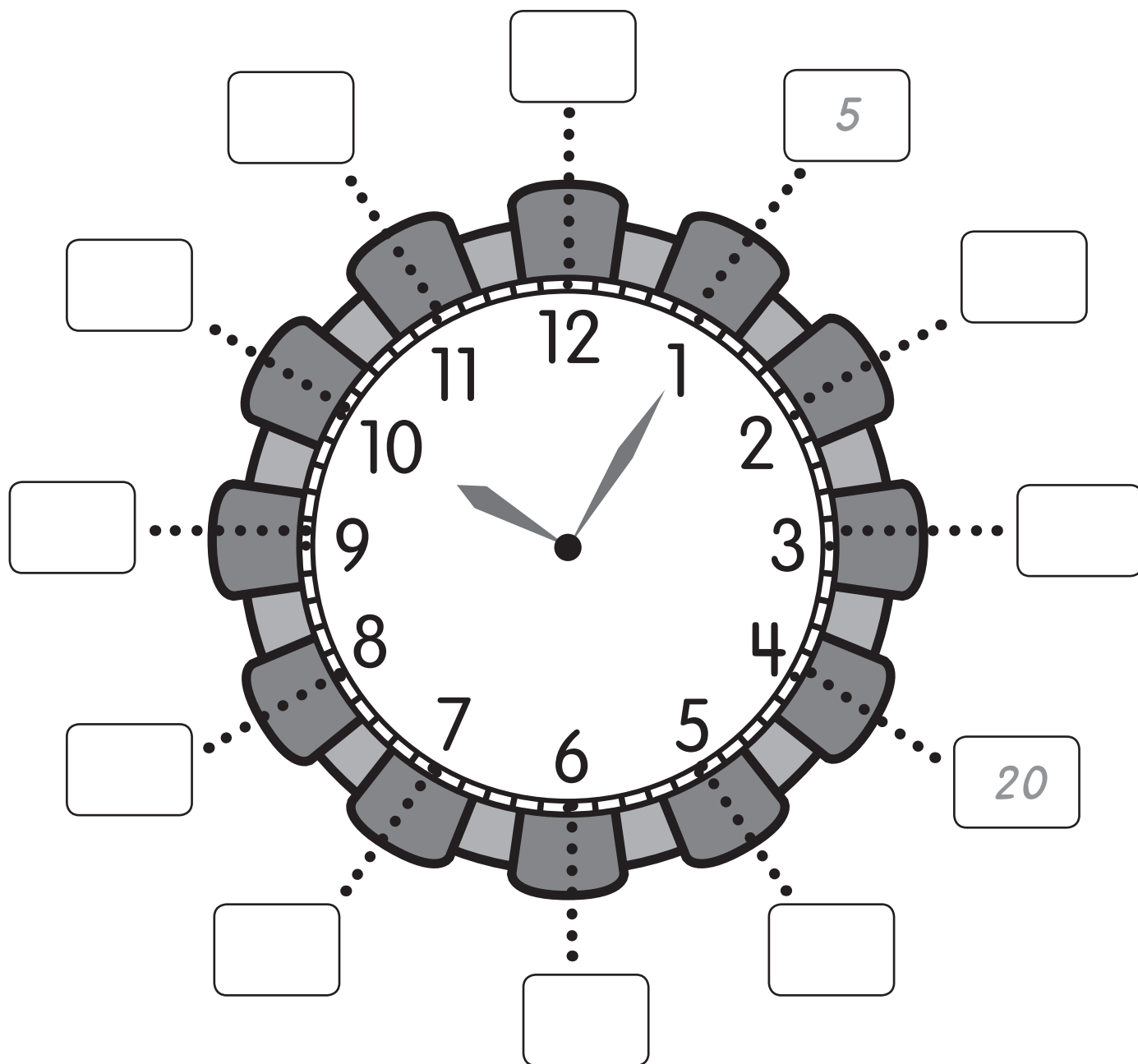
Example
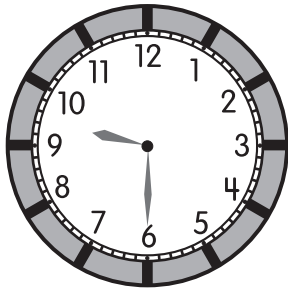
The minute hand points to ___30___ minutes.

2.
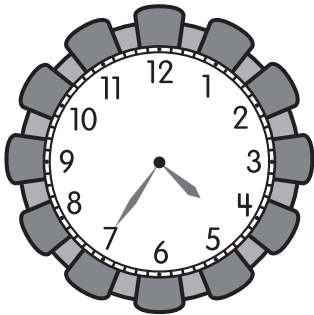
The minute hand points to _____ minutes.

3.
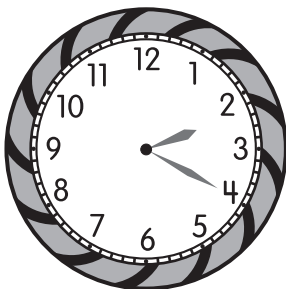
The minute hand points to _____ minutes.

4.
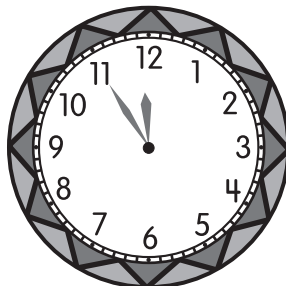
The minute hand points to _____ minutes.

Write the time.

5.
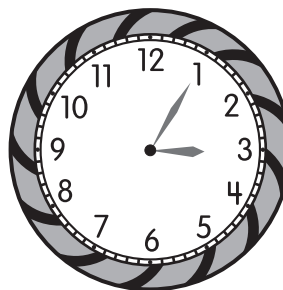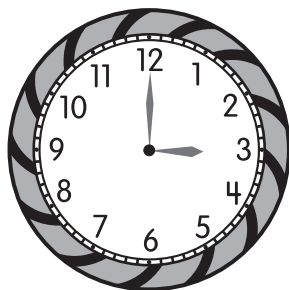
_____   _____ minutes after 3 o'clock.

6.
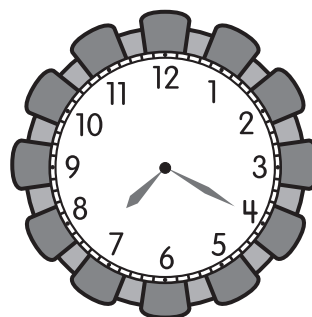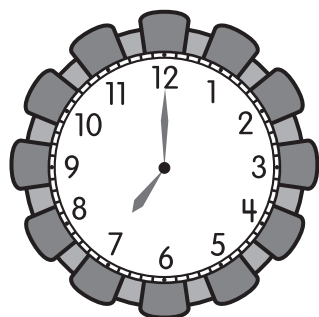
_____   _____ minutes after 7 o'clock.

7.
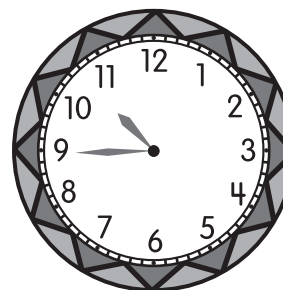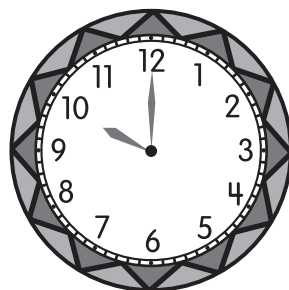
_____   _____ minutes after 10 o'clock.

Draw the minute hand to show the time.

8.   15 minutes after 4 o'clock
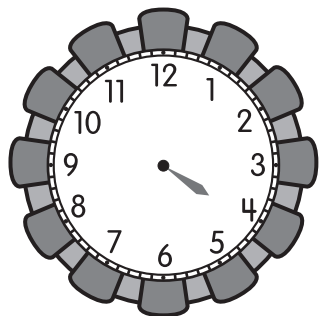
9.   40 minutes after 6 o'clock
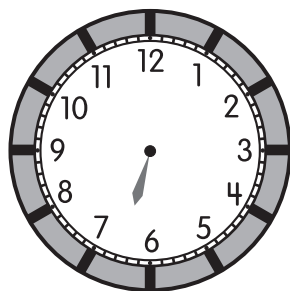
10.   50 minutes after 1 o'clock
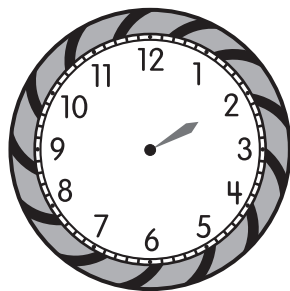
11.   35 minutes after 10 o'clock
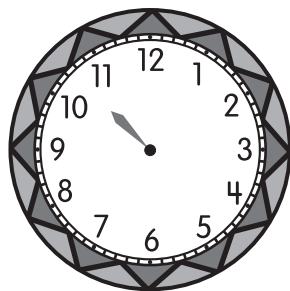
Practice 2   Reading and Writing Time

Write the time in words.

Example

`10:50`

ten fifty or 50 minutes after 10

1.

`3:15`

_____

2.

`11:40`

_____

3.

`1:25`

_____

4.

`3:35`

_____

5.

`8:55`

_____
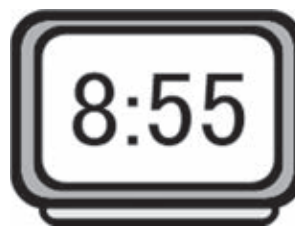
Write the time.

Example
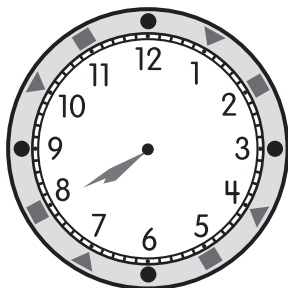
The time is __7:40__.

6.
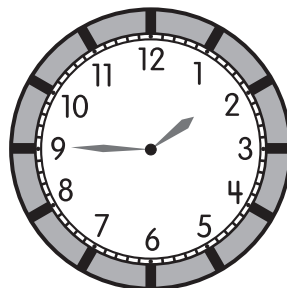
The time is _____.

7.
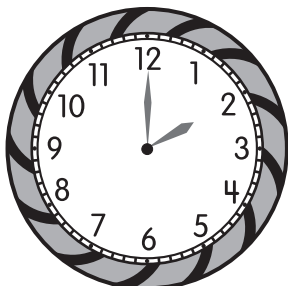
The time is _____.

8.
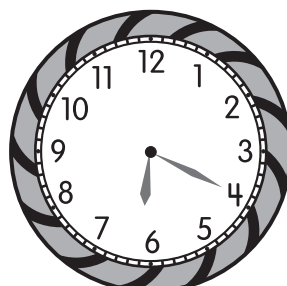
The time is _____.

9.
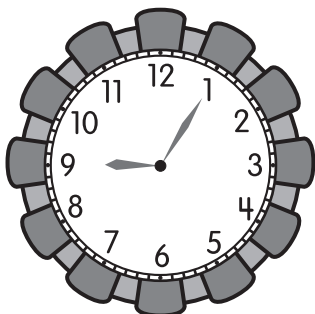
The time is _____.

10.
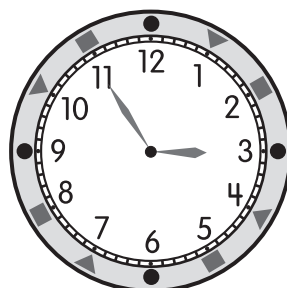
The time is _____.

Draw the minute hand to show the time.
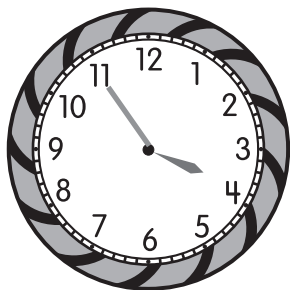
Example

The time is 3:55.

11.
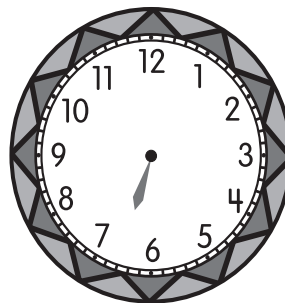
The time is 6:30.

12.
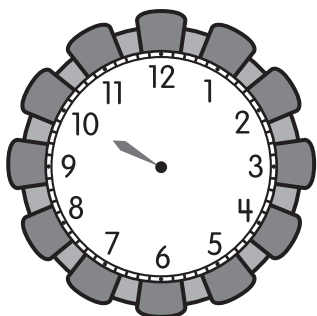
The time is 10:15.

13.
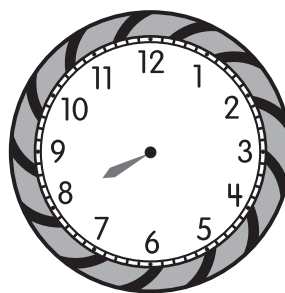
The time is 8:00.

14.
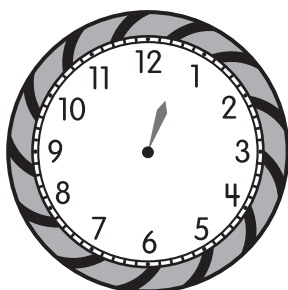
The time is 12:40.

15.
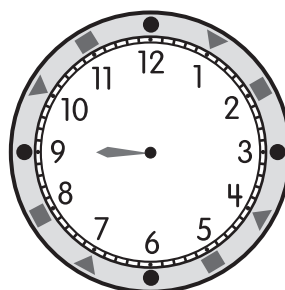
The time is 9:05.

Draw the hour hand to show the time.
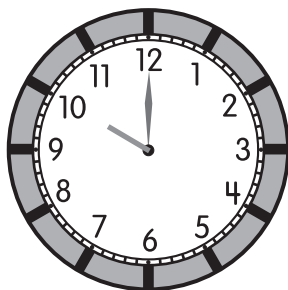
Example

The time is 10:00.

16.
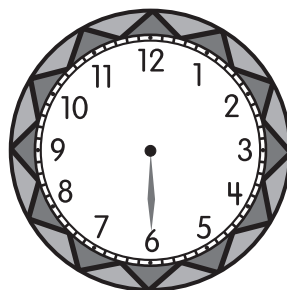
The time is 11:30.

17.
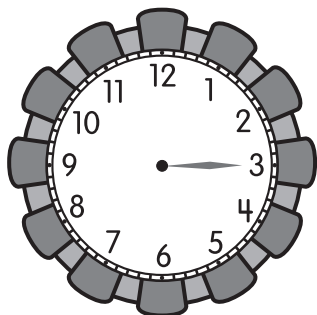
The time is 7:15.

18.
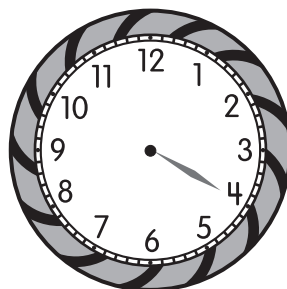
The time is 4:20.

19.
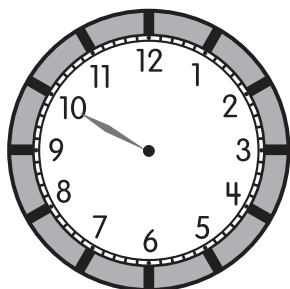
The time is 2:50.

20.

The time is 3:40.

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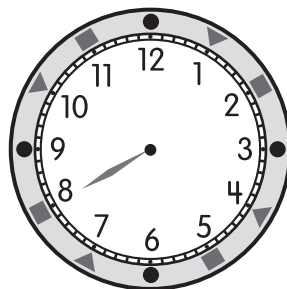
Draw the hands to show the time.
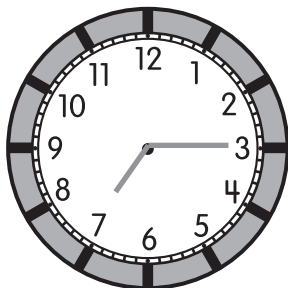
Example

The time is 7:15.

21.
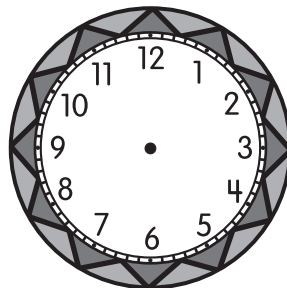
The time is 4:30.

22.
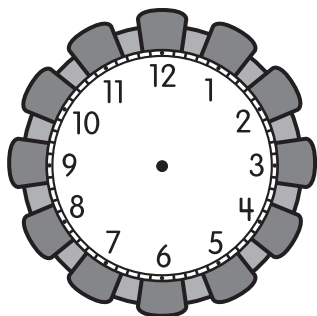
The time is 1:20.

23.
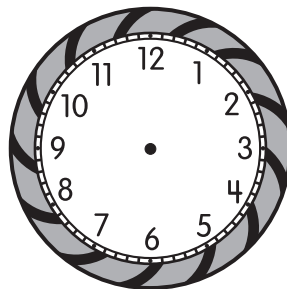
The time is 9:25.

24.
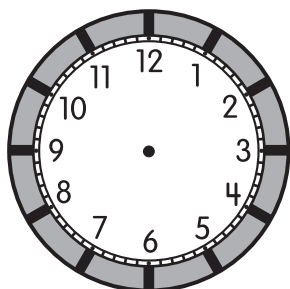
The time is 7:00.

25.
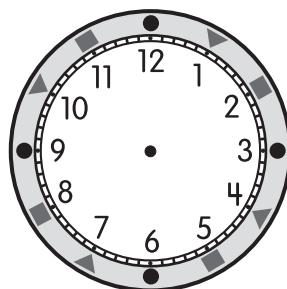
The time is 9:50.

Draw the hands to show the time.
Then write the time in words.
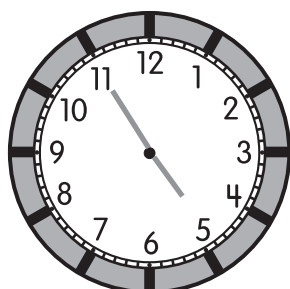
Example

4:55
four fifty-five
or 55 minutes after 4

26.
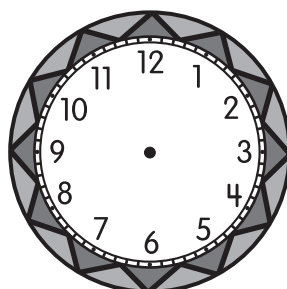
5:10

_____

27.
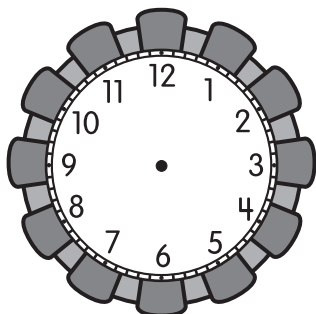
11:40

_____

28.
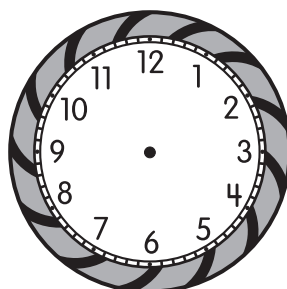
6:55

_____

29.
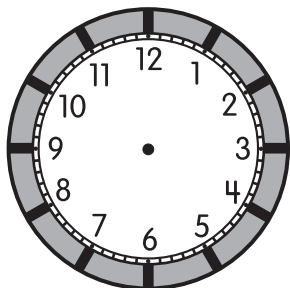
1:25

_____

30.
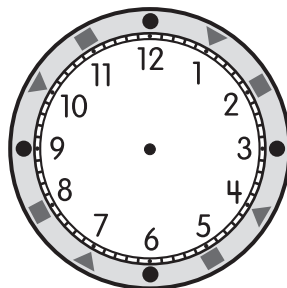
12:15

_____

Practice 3 Using A.M. and P.M.

Write A.M. or P.M.

Example

Sam wakes up at 6:30 ___A.M.___

1.

His grandparents begin their

daily exercise at 6:50 _____

2.

Sometimes, Sam rides his bike in

the afternoon at 2:50 _____

Write _A.M._ **or** _P.M._

3. The sun sets at

about 7:25 _____

4.

At 6:30 _____, Sam eats

his dinner with his friend.

5.

His father likes to go jogging at night.

He usually jogs at 8:30 _____

6. Denise and her mother finished grocery shopping at 10:30 _____

7. The family had lunch at 12:30 _____

8. They reached home at 11:00 _____

Write *A.M.* or *P.M.*

9. Denise woke up at 7:30 _____

10. Denise and her mother left for the grocery store at 9:30 _____

11. Denise helped her mother put away the groceries.
Then they started preparing lunch at 11:30 _____

12. **List the times of events in Practice 6–11.**
Arrange them in order from the beginning of the day.

_____

Beginning

Practice 4   Elapsed Time

Fill in the blanks with the time.
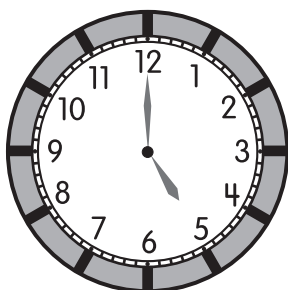
Check your answer by drawing the hands on the clock.

Example

is 1 hour after

_5:00_   _4:00_

1.

is 1 hour before

11:00   _____

2.

is 1 hour after

8:00   _____
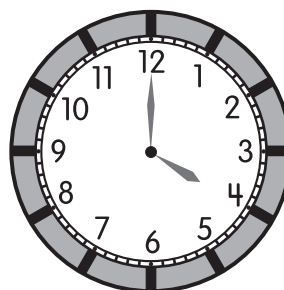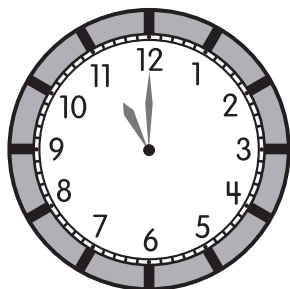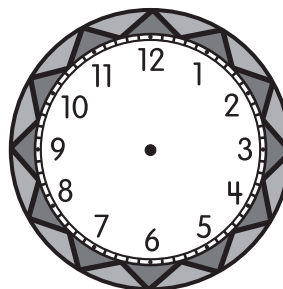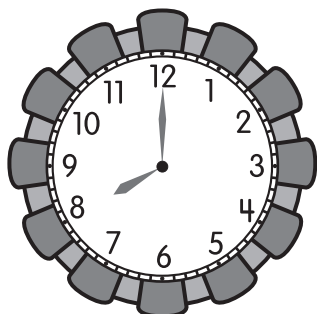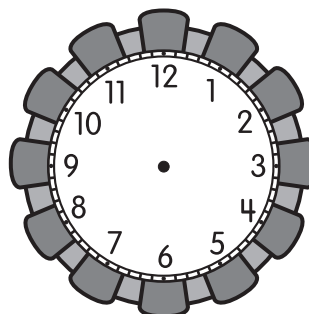
Write *before* or *after*.
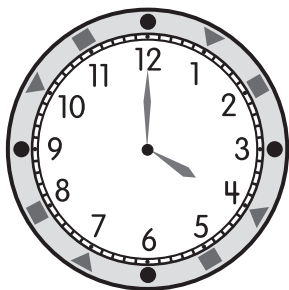
Example

is 1 hour __*before*__
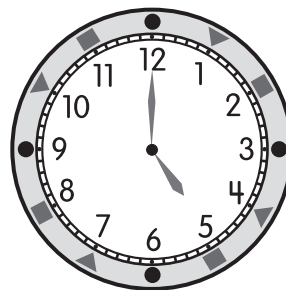
3.
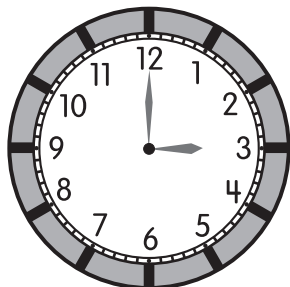
is 1 hour _____
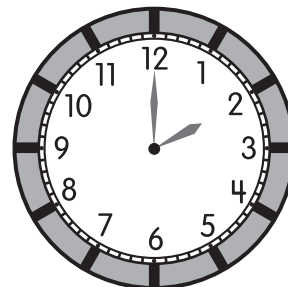
4.
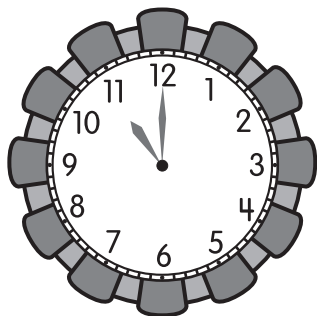
is 1 hour _____
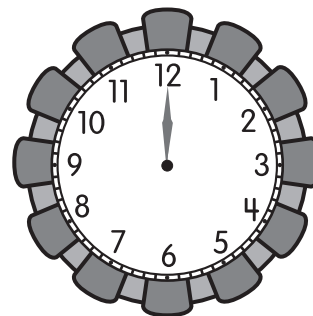
5.
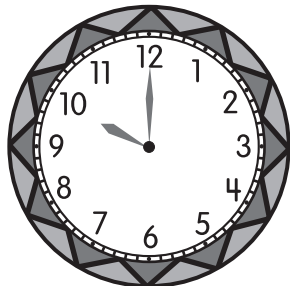
is 1 hour _____
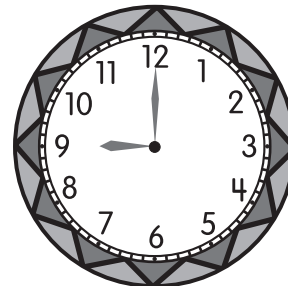
Fill in the blanks with the time.

Check your answer by drawing the hands on the clock.
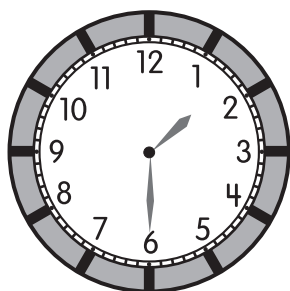
Example

is 30 minutes before
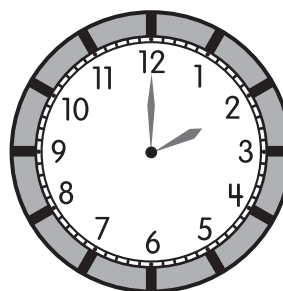
1:30   *2:00*

6.
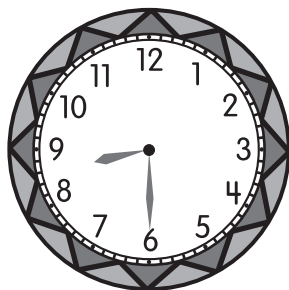
is 30 minutes after

_____
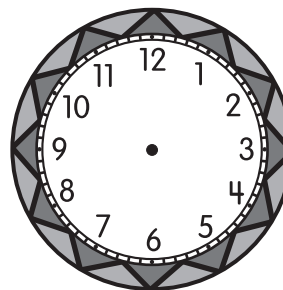
8:00

7.
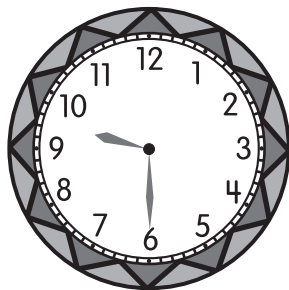
is 30 minutes before

_____
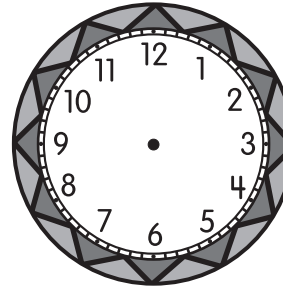
10:00

Write *before* or *after*.

Example
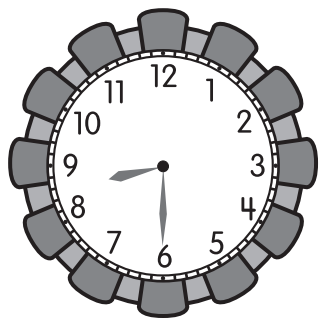
is 30 minutes ___*after*___
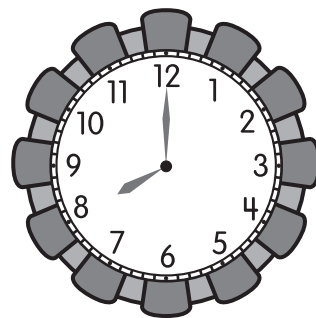
8.
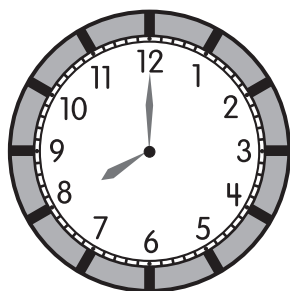
is 30 minutes _____
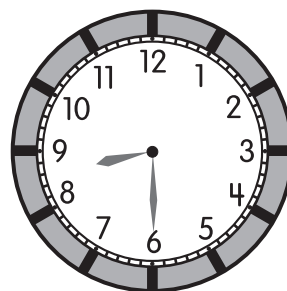
9.
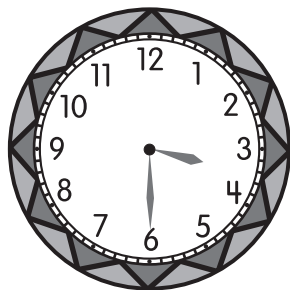
is 30 minutes _____

10.
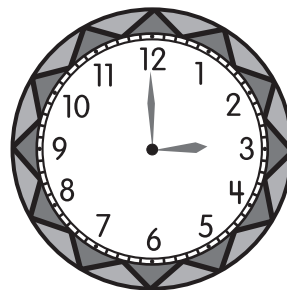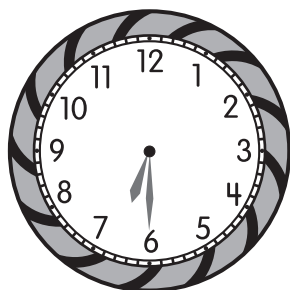
is 30 minutes _____
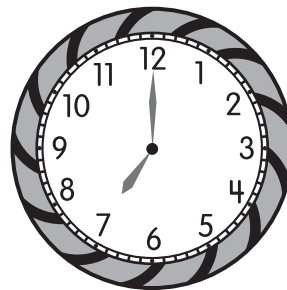
Draw the hands on the clock.
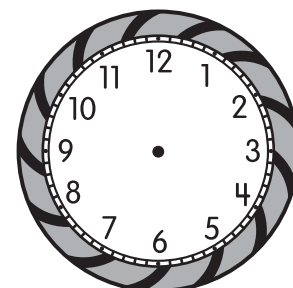## Then write the time.

11.
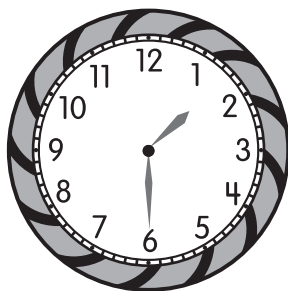
is 30 minutes after

_____ _____
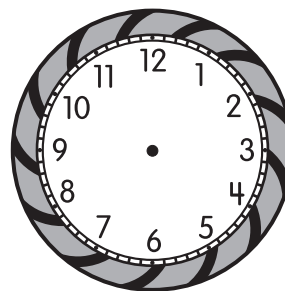
12.
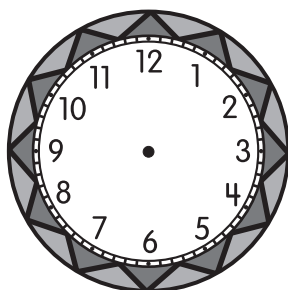
is 1 hour after

_____ _____
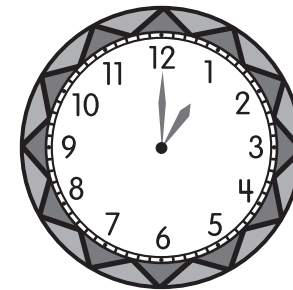
13.
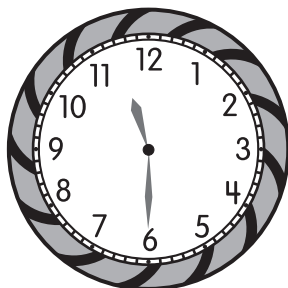
is 30 minutes before

_____ _____
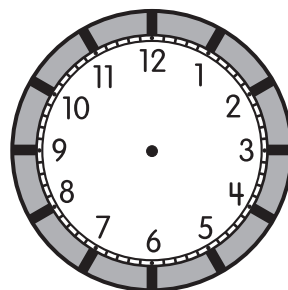
Write *before* or *after*.

Then draw the hands on the clock.
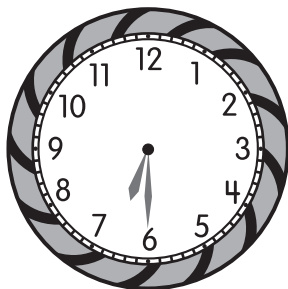
14.
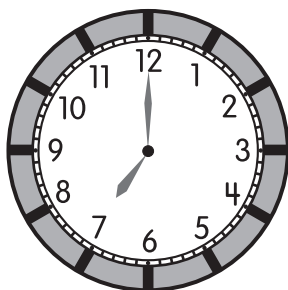
7:00

is 1 hour _____
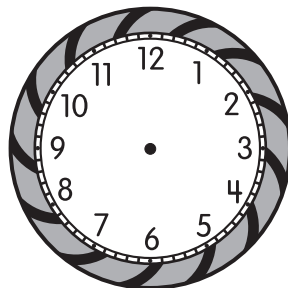

6:00

15.

6:30

is 1 hour _____
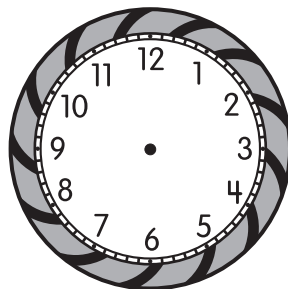
7:30

16.

6:00

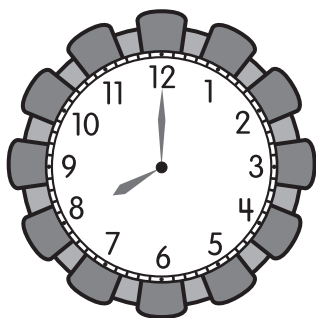is 30 minutes _____

6:30

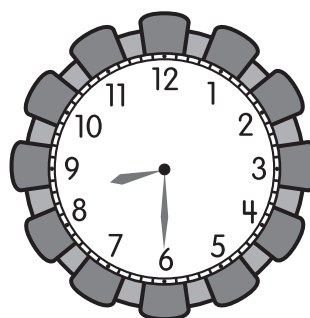## Fill in the blanks with the number of minutes or hours.

17. Captain James left the dock at 8.00 A.M. and arrived on shore at 8:30 A.M.
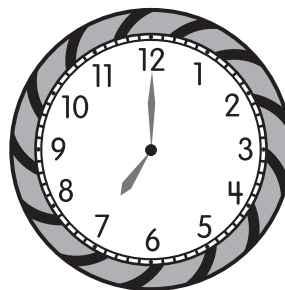

Start

End

How long was the trip? _____

18. Peter played basketball from 6.00 P.M. to 7.00 P.M.
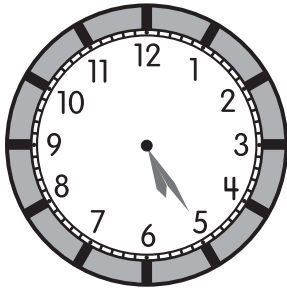

Start
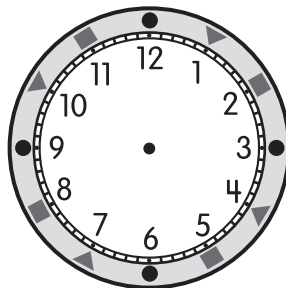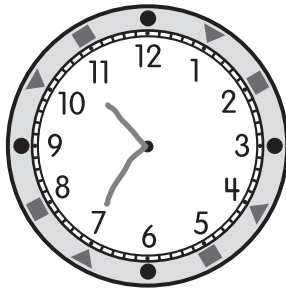

End

How long did he play? _____

Math Journal

Find the mistakes.
Circle the mistakes.
Then correct them.

1.

Albert wrote: The time is 4:25.

_____

2. Keisha drew the hands on the clock
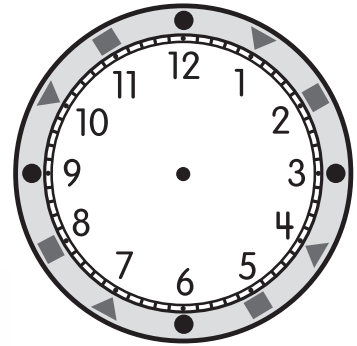to show 7:55.
This is how she did it.

Put On Your Thinking Cap!

Challenging Practice

Look at the picture.
Where can the hour hand be?
Draw it on the clock face.
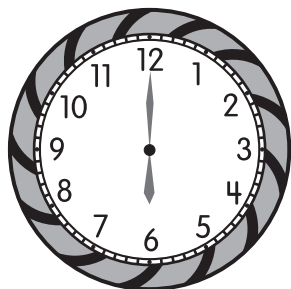Explain.

Put On Your Thinking Cap!

Problem Solving

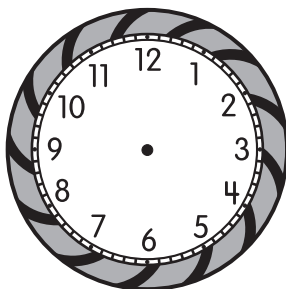What time did Kyle finish his homework?
Use the clues below to find out.

> Kyle spent 1 hour writing his story.
> He took another 30 minutes to color the pictures.
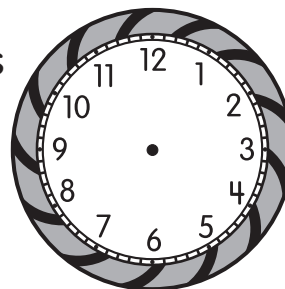> Kyle started his homework at 6.00 P.M.

1 hour later →

30 minutes later →

6:00 P.M.

_____   _____   _____

Chapter Review/Test

Vocabulary
Fill in the blanks with words from the box.

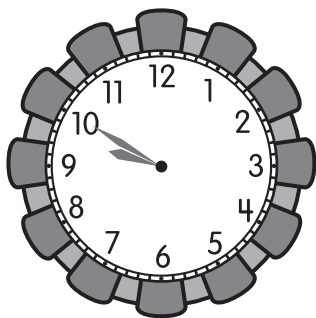> minutes   hours   A.M.   P.M.

1. 60 _____ is equal to 1 hour.

2. Use _____ to talk about time just after midnight to just before noon.

3. Use _____ to talk about time just after noon to just before midnight.
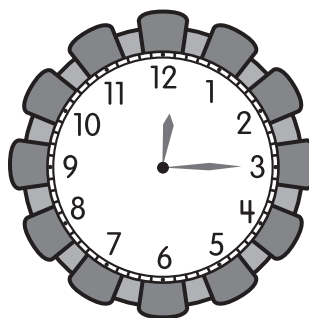
4. Use a clock to tell time in _____ and minutes.

Concepts and Skills
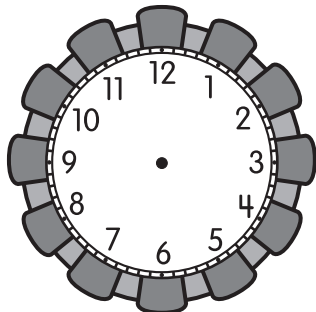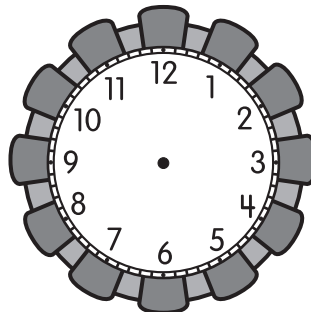
Write the time in numbers and in words.

5.

_____

_____

6.

_____

_____

Draw the hands on the clock to show the time.

7.

1:45

8.

6:55

Write A.M. or P.M.

9. Katy goes to school at 7:15 _____

10. She goes home after school at 3:00 _____

Find the time.

11. 30 minutes before 6:00 P.M. is _____

12. 30 minutes after noon is _____

13. 1 hour before 3:30 A.M. is _____

14. 1 hour after midnight is _____

Problem Solving

Solve.

15. Annie spent 30 minutes on her math homework.
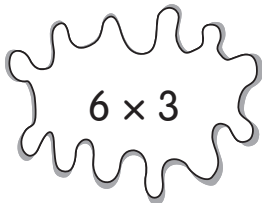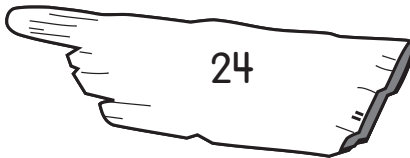She started at 6:30 P.M.
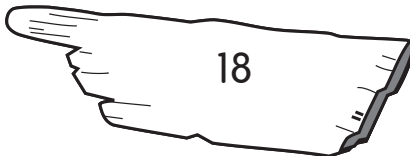What time did she finish?   _____
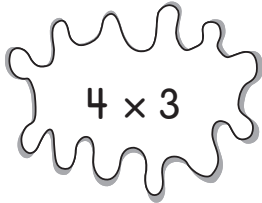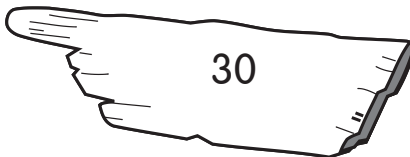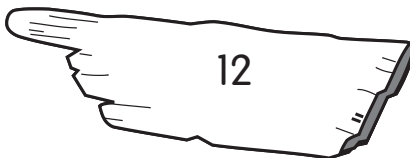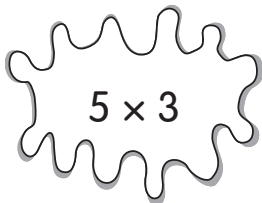
16. Pedro has swimming lesson from 5:00 P.M.
to 6:00 P.M. How long is his swimming lesson?   _____

CHAPTER
15

Multiplication Tables of 3 and 4

Practice 1 Multiplying 3: Skip-Counting

Match the shapes that have the same value.

6×3

1. 4×3

2. 5×3

3. 10×3

4. 8×3

24

8 groups of 3

18

30

12

15

10 groups of 3

4 groups of 3

Count by 3s.
Then fill in the blanks.

Example

3, 6, 9, 12, _15_, 18
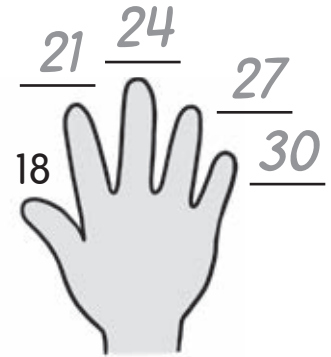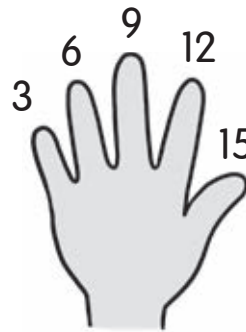
5. 9, 12, 15, _____, _____, _____, _____

6. 12, _____, 18, 21, _____, _____, 30
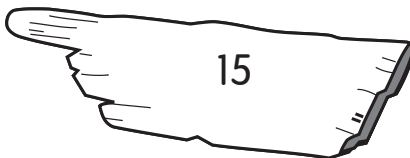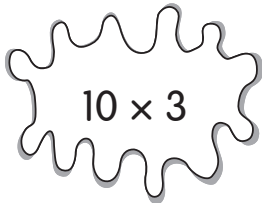
Fill in the blanks.

7. $4 \times 3 =$ _____

8. $2 \times 3 =$ _____

9. $6 \times 3 =$ _____

10. $8 \times 3 =$ _____

11. $9 \times 3 =$ _____

12. $7 \times 3 =$ _____

13. $3 \times 3 =$ _____

14. $10 \times 3 =$ _____

Solve.

15. Andrea has 5 flower vases.
Each vase has 3 roses.
How many roses are there in all?

$5 \times 3 =$ _____

There are _____ roses in all.

Practice 2 Multiplying 3: Using Dot Paper

Use dot paper to solve.

Example

Sally buys 4 lanterns.
Each lantern costs $3.
How much does Sally pay for the lanterns?
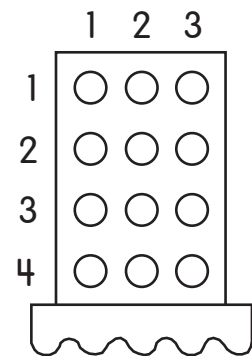
$4 \times \$3 = \$\underline{\quad 12 \quad}$

Sally pays $\underline{\quad 12 \quad}$ for the lanterns.

1. Nicole buys 6 soup bowls.
Each soup bowl costs $3.
How much does she pay for all the soup bowls?

$\underline{\qquad} \times \$3 = \$\underline{\qquad}$
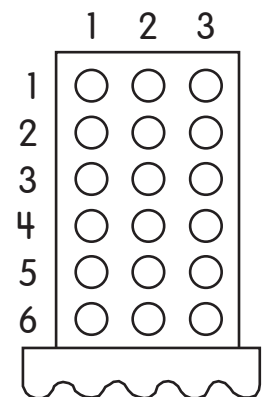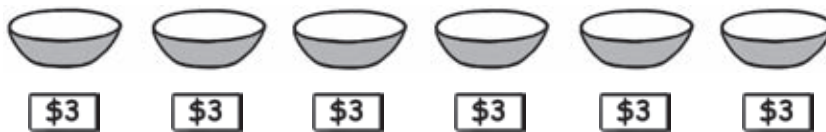
She pays $\underline{\qquad}$ for all the soup bowls.

Use dot paper to solve.

2. There are 7 tricycles.
Each tricycle has 3 wheels.
How many wheels are there in all?

_____ × _____ = _____
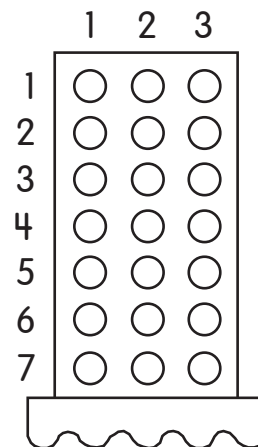
There are _____ wheels in all.

3. There are 8 groups of children in the class.
There are 3 children in each group.
How many children are there in the class?

_____ × _____ = _____

There are _____ children in the class.

Use dot paper to help you fill in the blanks.

Example
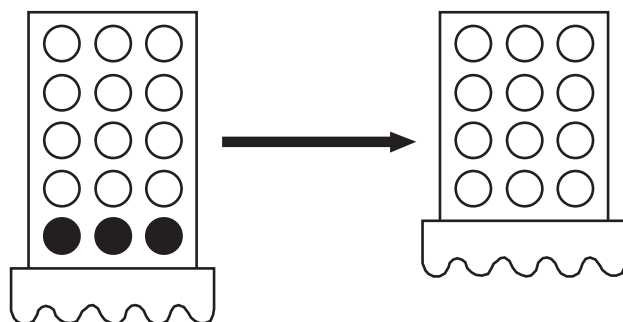
$5 \times 3 =$ ___15___ $4 \times 3 = 5$ groups of $3 - 1$ group of 3

$\qquad\qquad\qquad\qquad = $ ___15___ $- 3$

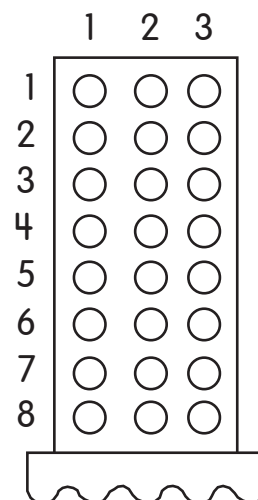$\qquad\qquad\qquad\qquad = $ ___12___

4.

$5 \times 3 =$ _____ $7 \times 3 = 5$ groups of $3 +$ _____ groups of 3

$\qquad\qquad\qquad\qquad = $ _____ $+$ _____

$\qquad\qquad\qquad\qquad = $ _____

Use dot paper to help you fill in the blanks.

5.

$10 \times 3 =$ _____ $9 \times 3 = 10$ groups of $3 -$ _____ group of 3

$\qquad\qquad\qquad\qquad\qquad\quad =$ _____ $-$ _____

$\qquad\qquad\qquad\qquad\qquad\quad =$ _____

6.

$10 \times 3 =$ _____ $8 \times 3 = 10$ groups of $3 -$ _____ groups of 3

$\qquad\qquad\qquad\qquad\qquad\quad =$ _____ $-$ _____

$\qquad\qquad\qquad\qquad\qquad\quad =$ _____

Use dot paper to help you fill in the blanks.

Example

_4_ × 3 = 12

3 × _4_ = 12

```
    1   2   3        1   2   3   4
  1 ○   ○   ○      1 ○   ○   ○   ○
  2 ○   ○   ○      2 ○   ○   ○   ○
  3 ○   ○   ○      3 ○   ○   ○   ○
  4 ○   ○   ○
```

7. _____ × 3 = 18

3 × _____ = 18

8. _____ × 3 = 21

3 × _____ = 21

9. 8 × 3 = _____

3 × 8 = _____

10. _____ × 3 = 27

3 × _____ = 27

Math Journal

These items are sold in a supermarket.
Use the items to write a multiplication story.

Crackers $3   Cereal $4

Example

I want to buy 4 boxes of cereal.

I will have to give the cashier $16.

Story

_____

_____

_____

Practice 3   Multiplying 4: Skip-Counting

Match.

8×4

4 groups of 4

1. 7×4

2 groups of 4

2. 2×4
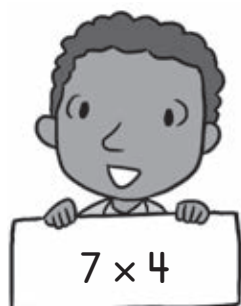
7 groups of 4

3. 4×4

8 groups of 4

Count by 4s.
Then fill in the blanks.

Example

4, 8, 12, 16, _____20_____

8 12 16 _28_ _32_ _36_
4 20 24 _40_
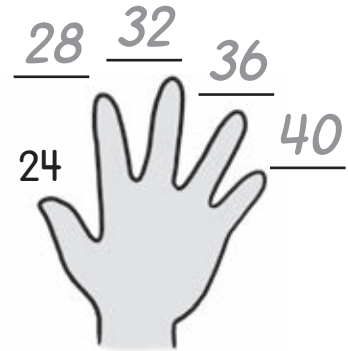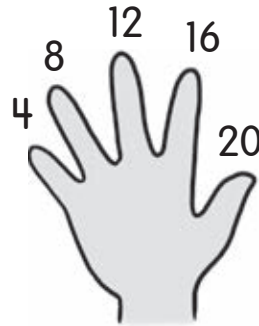
4. 12, 16, 20, _____, _____, _____, _____

5. 16, _____, 24, 28, _____, _____, 40

Fill in the blanks.

6. 3 × 4 = _____

7. 6 × 4 = _____

8. 2 × 4 = _____

9. 8 × 4 = _____

10. 9 × 4 = _____

11. 4 × 4 = _____

12. 10 × 4 = _____

13. 7 × 4 = _____

Solve.

14. There are 5 pencil cases.
4 erasers are in each pencil case.
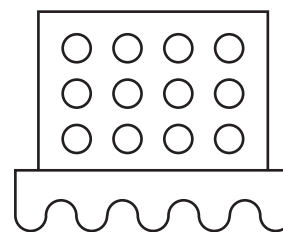How many erasers are there in all?

5 × 4 = _____

There are _____ erasers in all.

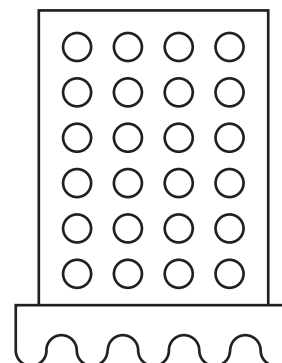# Practice 4   Multiplying 4: Using Dot Paper

Solve.

Example

There are 3 boxes of crayons.
There are 4 crayons in each box.
How many crayons are there in all?

3 × 4 = _____*12*_____

There are _____*12*_____ crayons in all.

1. There are 6 toy cars in a toy box.
Each car has 4 wheels.
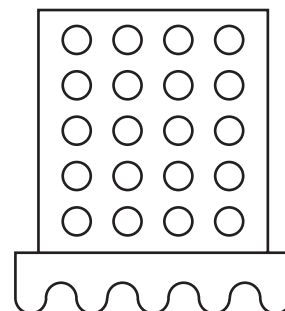How many wheels are there in all?

_____ × 4 = _____

There are _____ wheels in all.

Use dot paper to solve.

2. Mrs. Jones buys 5 T-shirts.
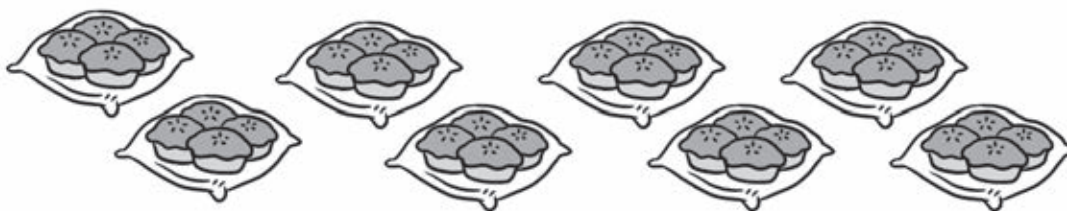Each T-shirt costs $4.
How much does Mrs. Jones spend in all?

_____ × $4 = $_____

Mrs. Jones spends $_____ in all.

3. There are 8 bags.
Each bag has 4 muffins.
How many muffins are there in all?

_____ × _____ = _____
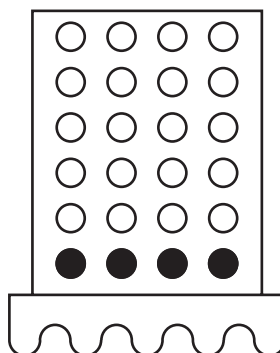
There are _____ muffins in all.
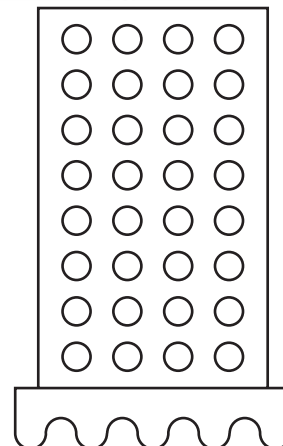
Name: _____   **Date:** _____

Use dot paper to help you fill in the blanks.

Example
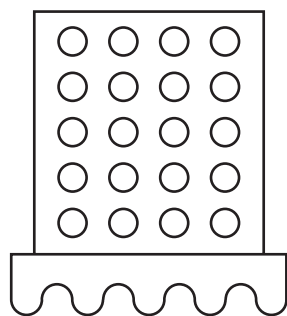
$5 \times 4 =$ ___20___ $6 \times 4 = 5$ groups of $4 +$ ___1___ group of 4

$= $ ___20___ $+ 4$

$= $ ___24___
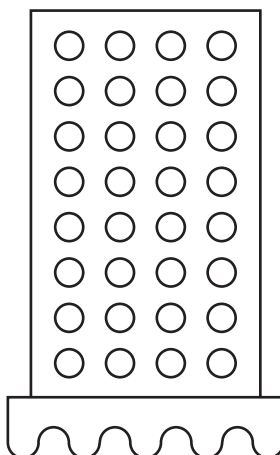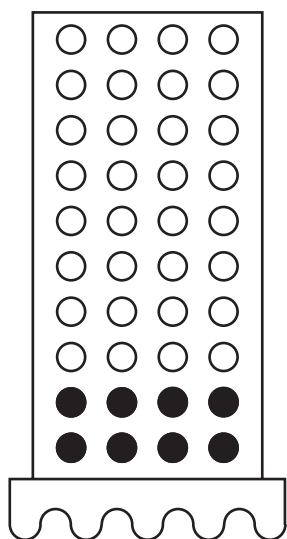
4.

$10 \times 4 =$ _____ $8 \times 4 = 10$ groups of $4 -$ _____ groups of 4

$= $ _____ $- 8$

$= $ _____

5. $7 \times 4 =$ _____ $+ 8$

$= $ _____

6. $9 \times 4 =$ _____ $- 4$

$= $ _____

Use dot paper to help you fill in the blanks.
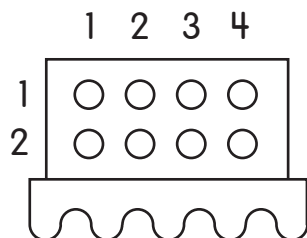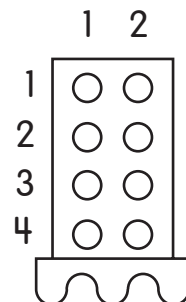
Example

   2 × *4* = *8*   *4* × *2* = *8*

7.

_____ × _____ = _____   _____ × _____ = _____
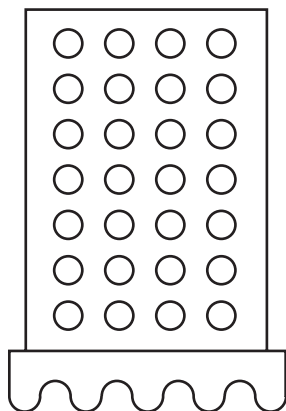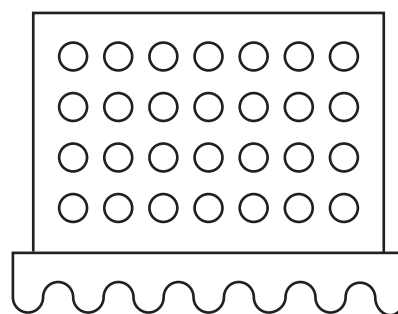
8.

_____ × _____ = _____   _____ × _____ = _____
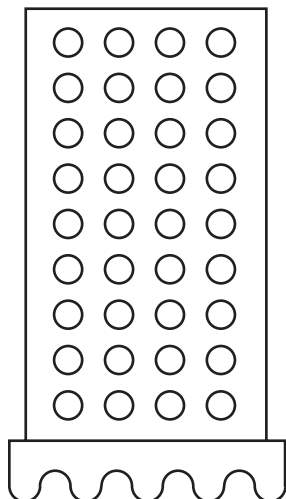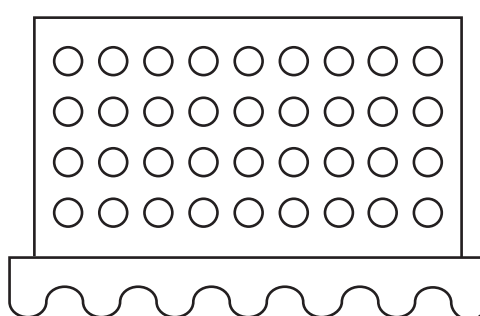
Practice 5   Divide Using Related Multiplication Facts

Complete the multiplication sentences.
Then complete the division sentences.

Example

$24 \div 4 =$ ____6____

$24 \div 3 =$ ____8____

$6 \times 4 = 24$
$8 \times 3 = 24$

1. $4 \times$ _____ $= 8$

_____ $\times 4 = 8$

$8 \div 2 =$ _____

$8 \div 4 =$ _____

2. $4 \times$ _____ $= 12$

_____ $\times 4 = 12$

$12 \div 3 =$ _____

$12 \div 4 =$ _____

3. $5 \times$ _____ $= 15$

_____ $\times 5 = 15$

$15 \div 3 =$ _____

$15 \div 5 =$ _____

4. $5 \times$ _____ $= 20$

_____ $\times 5 = 20$

$20 \div 4 =$ _____

$20 \div 5 =$ _____

Use related multiplication facts to solve.

> **Example**
>
> The teacher divides 21 books equally among 3 children.
> How many books does each child get?
>
> $\underline{\quad 21 \quad} \div \underline{\quad 3 \quad} = \underline{\quad 7 \quad}$
>
> Each child gets __7__ books.

5. Mr. Holtz gives $24 to 4 workers.
The workers share the money equally among themselves.
How much money does each worker get?

$\$\underline{\qquad} \div \underline{\qquad} = \$\underline{\qquad}$

Each worker gets $\$\underline{\qquad}$.

6. Rita has 27 stuffed toys.
She puts them on 3 shelves.
She puts the same number on each shelf.
How many stuffed toys are on each shelf?

$\underline{\qquad} \div \underline{\qquad} = \underline{\qquad}$

There are _____ stuffed toys on each shelf.

Use related multiplication facts to solve.

7. Phil puts 36 pencils equally into 4 boxes.
How many pencils are in each box?

_____ ÷ _____ = _____

There are _____ pencils in each box.

8. Angie uses 9 craft sticks to make 3 triangles of the same size.
How many craft sticks are needed to make one triangle?

_____ ÷ _____ = _____

_____ craft sticks are needed to make one triangle.

9. Sammy fixes 8 tires on his cars.
He fixes 4 tires on each car.
How many cars are there?

_____ ÷ _____ = _____

There are _____ cars.

10. Mr. Yuma has 18 pieces of bread.
He puts 3 pieces in each basket.
How many baskets does he use?

_____ ÷ _____ = _____

He uses _____ baskets.

11. A photo album contains 20 photos.
Each filled page of the album has 4 photos.
How many pages are filled?

_____ ÷ _____ = _____

_____ pages are filled.

12. Keisha has 9 fish.
She puts 3 fish in each fish tank.
How many fish tanks does she need?

_____ ÷ _____ = _____

She needs _____ fish tanks.
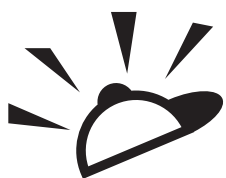
Put On Your Thinking Cap!

Challenging Practice

1. Steve starts reading a book at page 7.
He reads the book for 4 days.
He reads 3 pages each day.
Which page will Steve stop at on the 4th day?

(Hint: Use a diagram to help you solve.)

2. The music teacher is selecting children to sit in the
front row at a concert.
100 children are given numbers 1 to 100.
The teacher first picks the child with the number 3.
He then skip-counts by tens to pick the other children.
What are the numbers of the other children who are picked?

The numbers are _____.

Put On Your Thinking Cap!

Problem Solving

Solve the riddle.

I am a two-digit number.
I am more than 20 but less than 30.
I can be found in both the multiplication tables
of 3 and 4.
What number am I?