



- ☐ Count forward and backward by 4's to 40.
- ☐ Practice the $\times 6$ and $\times 0$ flash cards for 5 minutes.
- ☐ Do Speed Drill 13 on page 67.
- ☐ Record your score in the graph on page 60.

Read the mixed numbers to your teacher.

\triangle $4\frac{2}{3}$ $8\frac{2}{8}$ $2\frac{4}{5}$ $9\frac{1}{2}$ $16\frac{3}{5}$ $4\frac{4}{9}$



Multiply and Carry

Many times you must multiply and carry to solve multiplication problems. Follow these steps to multiply and carry.

STEP 1

Multiply ones.

$$4 \times 9 = 36 \text{ (3 tens, 6 ones)}$$

Write the 6 in the ones place.

Carry the 3 to the tens place.

	3	
	t	o
	2	9
\times		4
		\downarrow
		6

STEP 2

Multiply tens

and **add** the 3 you carried.

$$4 \times 2 + 3 = 11$$

	3	
	t	o
	2	9
\times		4
	\downarrow	
1	1	6

Multiply. Carry when necessary.

1.	$\begin{array}{r} 1 \\ 27 \\ \times 2 \\ \hline 54 \end{array}$	$\begin{array}{r} 3 \\ 19 \\ \times 4 \\ \hline 76 \end{array}$	$\begin{array}{r} 32 \\ \times 3 \\ \hline 96 \end{array}$	$\begin{array}{r} 2 \\ 14 \\ \times 5 \\ \hline 70 \end{array}$	$\begin{array}{r} 2 \\ 54 \\ \times 6 \\ \hline 324 \end{array}$	$\begin{array}{r} 1 \\ 59 \\ \times 2 \\ \hline 118 \end{array}$
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We Remember

Find the sums and differences.

$$\begin{array}{r} 89 \overline{) 907} \\ - 809 \\ \hline 98 \end{array}$$

$$\begin{array}{r} \overline{) 3.38} \\ + 2.32 \\ \hline \$5.70 \end{array}$$

$$\begin{array}{r} \overline{) 759} \\ + 847 \\ \hline 1,606 \end{array}$$

$$\begin{array}{r} 548 \\ - 26 \\ \hline 522 \end{array}$$

$$\begin{array}{r} 3 \overline{) 4.26} \\ - 2.78 \\ \hline \$1.48 \end{array}$$



3. A fishing boat returned to shore with 238 whiting, 150 ocean perch, 123 flounder, and 223 codfish on board. How many fish were on the boat?

734 fish

Solution

$$\begin{array}{r} \overline{) 238} \\ + 150 \\ + 123 \\ + 223 \\ \hline 734 \end{array}$$



4. The sailfish is the fastest fish in the world. A sailfish was swimming 61 kilometers an hour. It spotted a smaller fish and went 48 kilometers an hour faster, reaching its top speed. After catching its prey, the sailfish slowed down to 8 kilometers an hour. What was the top speed of the sailfish?

109 kilometers an hour

Solution

$$\begin{array}{r} 61 \\ + 48 \\ \hline 109 \end{array}$$

Write the product. Write the division sentence that is opposite.

5. $2 \times 8 = \underline{16}$ $\underline{16 \div 8 = 2}$ or $16 \div 2 = 8$

6. $5 \times 9 = \underline{45}$ $\underline{45 \div 9 = 5}$ or $45 \div 5 = 9$

Write these numbers from least to greatest.

7. 6.3, 3.6, 4	<u>3.6</u>	<u>4</u>	<u>6.3</u>
8. 2.5, 0.5, 1.5	<u>0.5</u>	<u>1.5</u>	<u>2.5</u>
9. 0.2, 0.1, 0.5	<u>0.1</u>	<u>0.2</u>	<u>0.5</u>

Lesson 13

Change the millimeters to centimeters.

10. 32 mm = 3.2 cm

8 mm = 0.8 cm

11. 5 mm = 0.5 cm

23 mm = 2.3 cm

Place numbers in the place-value chart for each of these.

	ones	tenths
12. three and eight-tenths	<u>3</u>	<u>8</u>
13. six and two-tenths	<u>6</u>	<u>2</u>
14. five	<u>5</u>	<u>0</u>
15. four-tenths	<u>0</u>	<u>4</u>
16. seven and nine-tenths	<u>7</u>	<u>9</u>

The salt in seawater is almost the same as the salt we sprinkle on our food. If a person drinks seawater only, he will die after a while. The salt in the water dries out his body.

Fill in the blank.

17. Our bodies have a lot of liquid. It is salty like ocean water.

A man's body has almost 5 gallons of liquid.

5 gallons = 20 quarts

Solve by multiplying and adding in your head.

18. a. $9 \times 2 + 3 =$ 21

b. $10 \times 5 + 3 =$ 53

c. $8 \times 3 + 4 =$ 28

19. a. $6 \times 10 + 6 =$ 66

b. $6 \times 5 + 3 =$ 33

c. $6 \times 4 + 6 =$ 30

Write the multiples of 8.

20. 8 16 24 32 40 48 56 63 72 80

Discover the pattern. Write three more numbers.

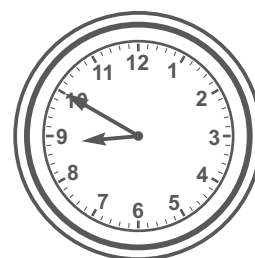
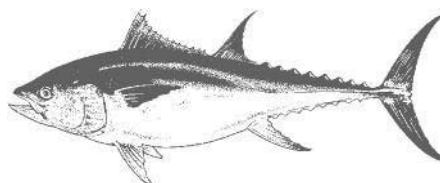
21. \$1.25 \$1.50 \$1.75 \$2.00 \$2.25 \$2.50 \$2.75

22. Which coin is added each time? ☐ nickel ☐ dime ☒ quarter

Count around the clock to find the answer.

23. It takes from 8:50 to 9:10 for a northern bluefin tuna to swim 24 kilometers. How many minutes is that?

20 minutes



Measure the baby lobster. Circle the correct measurement.

Rewrite it in centimeters. Write the centimeters as a fraction.



24. 10 mm 8 mm 4 mm

25. $\frac{0.8}{10}$ centimeters
 $\frac{8}{10}$ centimeters

Answer each side. Then write $<$, $>$, or $=$.

26. 6×6 $\boxed{?}$ 4×9 27. 6×9 $\boxed{?}$ 5×9 28. $6 + 3$ $\boxed{?}$ 6×3
36 $\boxed{=}$ 36 54 $\boxed{>}$ 45 9 $\boxed{<}$ 18

Draw a ray.

- 29.

Fact Focus

30. $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$ $\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$ $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$ $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$ $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$ $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$ $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$ $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$ $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$ $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$

31. $\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$ $\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$ $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$ $\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$ $\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$ $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$ $\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$ $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$ $\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$ $\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$



- ☐ Count forward and backward by 3's to 30.
- ☐ Practice the L and $\times 9$ flash cards for 5 minutes.
- ☐ Do Speed Drill 14 on page 67.
- ☐ Record your score in the graph on page 60.

How Many Days Are in a Year?

Many things happen in a year. We go to school and have summer vacation. We celebrate Easter, Thanksgiving, and Christmas. We celebrate our birthdays every year.

Many things happen in the ocean too. Salmon travel from 1,000 to 2,000 miles to lay their eggs. Tuna migrate many miles to find warmer waters.

Do you know how many days are in one year? Let's find out by listing how many days are in each month.

<i>January</i>	<i>31 days</i>	<i>July</i>	<i>31 days</i>
<i>February</i>	<i>28 days</i>	<i>August</i>	<i>31 days</i>
<i>March</i>	<i>31 days</i>	<i>September</i>	<i>30 days</i>
<i>April</i>	<i>30 days</i>	<i>October</i>	<i>31 days</i>
<i>May</i>	<i>31 days</i>	<i>November</i>	<i>30 days</i>
<i>June</i>	<i>30 days</i>	<i>December</i>	<i>31 days</i>

Ask your teacher for a calculator. Add the days in each month.
Did you get 365 days?

$$1 \text{ year} = 365 \text{ days}$$

Fill in the blanks to show what you know about a year.

1. 1 year = 12 months

2. 1 year = 365 days

Use your reference chart to find out two more things about a year.

3. 1 leap year = 366 days 1 year = 52 weeks



We Remember

Solve.

$$\begin{array}{r} 495 \\ +786 \\ \hline 1,281 \end{array}$$

$$\begin{array}{r} 462 \\ +395 \\ \hline 857 \end{array}$$

$$\begin{array}{r} 312 \\ +579 \\ \hline 891 \end{array}$$

$$\begin{array}{r} 312 \\ -430 \\ \hline 85 \end{array}$$

$$\begin{array}{r} 612 \\ -341 \\ \hline 371 \end{array}$$



5. A group of dolphins is called a pod. During the spring, 4 calves were born to a pod of 25 dolphins. Later in the year, 7 dolphins swam off to form their own group. How many dolphins were left in the pod?

Solution

$$\begin{array}{r} 25 \\ +4 \\ \hline 29 \end{array}$$

Solution

$$\begin{array}{r} 29 \\ -7 \\ \hline 22 \end{array}$$

22 dolphins



6. At the Bay of Fundy, the tide is rising. The ocean will rise 15 meters to reach high tide. If the water is still 7 meters below the high-water mark at noon, how far has the tide already risen?

Solution

$$\begin{array}{r} 15 \\ -7 \\ \hline 8 \end{array}$$

8 meters

Fill in the blanks.

7. a. 4 gallons = 16 quarts

b. 6 gallons = 24 quarts

Lesson 14

Mental Math . . . ?

8. $75 - 5 = \underline{70}$

$60 + 10 = \underline{70}$

$32 + 5 = \underline{37}$

9. $420 - 200 = \underline{220}$

$90 - 10 = \underline{80}$

$27 - 2 = \underline{25}$

10. $74 + 9 = \underline{83}$

double 33 = 66

$26 + 8 = \underline{34}$

Check the problems. Copy and rework any problem that is incorrect.

11.
$$\begin{array}{r} \underline{\underline{605}} \\ \begin{array}{r} | \quad | \\ 546 \\ + 59 \\ \hline 506 \end{array} \end{array}$$

$$\begin{array}{r} | \quad | \\ 546 \\ + 59 \\ \hline 605 \end{array}$$

12.
$$\begin{array}{r} \underline{\underline{136}} \\ \begin{array}{r} 1 \\ 16 \\ 31 \\ + 89 \\ \hline 136 \end{array} \end{array}$$

Multiply. Carry when necessary.

13.
$$\begin{array}{r} 2 \\ 63 \\ \times 9 \\ \hline 567 \end{array}$$

$$\begin{array}{r} 3 \\ 56 \\ \times 5 \\ \hline 280 \end{array}$$

$$\begin{array}{r} 90 \\ \times 9 \\ \hline 810 \end{array}$$

$$\begin{array}{r} 1 \\ 86 \\ \times 2 \\ \hline 172 \end{array}$$

$$\begin{array}{r} 2 \\ 34 \\ \times 6 \\ \hline 204 \end{array}$$

$$\begin{array}{r} 4 \\ 69 \\ \times 5 \\ \hline 345 \end{array}$$

Order the fractions from largest to smallest. $\frac{2}{4}$ $\frac{2}{7}$ $\frac{2}{9}$ $\frac{2}{5}$ $\frac{2}{10}$

14. $\underline{\frac{2}{4}}$ $\underline{\frac{2}{5}}$ $\underline{\frac{2}{7}}$ $\underline{\frac{2}{9}}$ $\underline{\frac{2}{10}}$

Write the decimals for the place-value charts.

15. a.

ones	tenths
5	1

 = 5.1

b.

ones	tenths
2	3

 = 2.3

c.

ones	tenths
0	9

 = 0.9

16. a.

ones	tenths
0	1

 = 0.1

b.

ones	tenths
7	0

 = 7.0

c.

ones	tenths
1	1

 = 1.1

Write the multiples of 8.

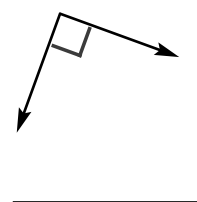
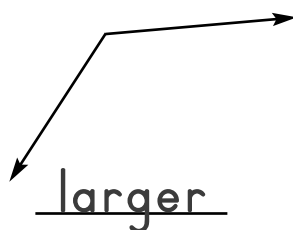
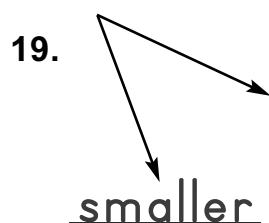
17. 8 16 24 32 40 48 56 64 72 80

Change the yards to feet.

18. The largest crab, the giant spider crab of Japan, can be 4 yards long between its outstretched claws.

$$4 \text{ yards} = \underline{12} \text{ feet}$$

Mark the right angle. Write *smaller* or *larger* under the other two angles.



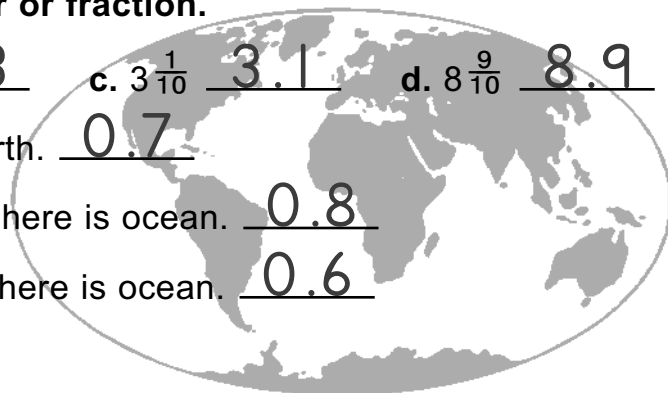
Write a decimal for each mixed number or fraction.

20. a. $5\frac{6}{10}$ 5.6 b. $1\frac{3}{10}$ 1.3 c. $3\frac{1}{10}$ 3.1 d. $8\frac{9}{10}$ 8.9

21. Oceans cover about $\frac{7}{10}$ of the earth. 0.7

22. About $\frac{8}{10}$ of the Southern Hemisphere is ocean. 0.8

23. About $\frac{6}{10}$ of the Northern Hemisphere is ocean. 0.6



Fact Focus

24. $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$ $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$ $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$ $\begin{array}{r} 6 \\ \times 0 \\ \hline 0 \end{array}$ $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$ $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$ $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$ $\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$ $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$ $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$

25. $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$ $\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$ $\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$ $\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$ $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$ $\begin{array}{r} 9 \\ \times 0 \\ \hline 0 \end{array}$ $\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$ $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$ $\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$ $\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$