

3



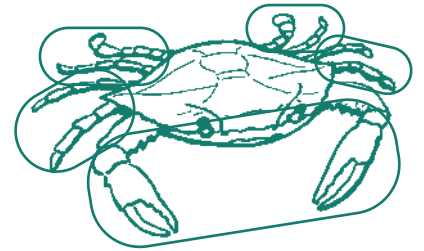
- ☐ Count by 9's to 90.
- ☐ Practice the G and $\times 9$ flash cards for 5 minutes.
- ☐ Do Speed Drill 3 on page 62.
- ☐ Record your score in the graph on page 60.

Learning About Division

Division means to divide into equal groups. It is the opposite of multiplication.

A crab has 10 legs. They are divided into pairs.
How many pairs of legs does a crab have?

A pair is two. So, to find how many pairs of legs a crab has, divide 10 into equal groups of 2.



We show this with a number sentence that uses the division sign.

Ten divided by two equals five.

The crab has five pairs of legs.

$\div$ division sign

$$\begin{array}{ccccccc} 10 & \div & 2 & = & 5 \\ \uparrow & & \uparrow & & \uparrow \\ \text{in all} & & \text{in each group} & & \text{groups} \end{array}$$

Divide into equal groups. Write a division sentence.

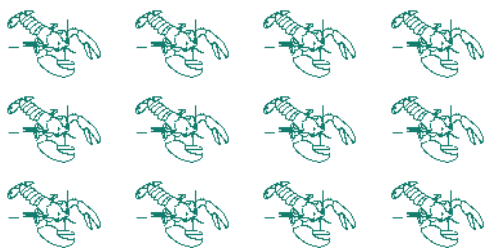
1. Divide 16 fish into groups of 4.



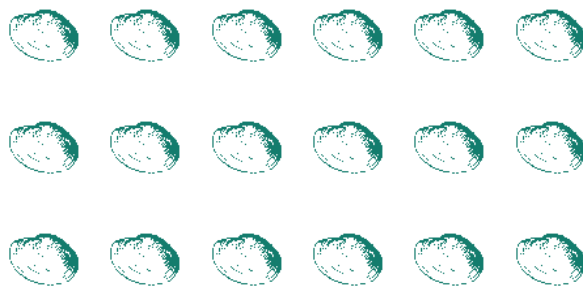
2. Divide 15 starfish into groups of 5.



3. Divide 12 lobsters into groups of 3.



4. Divide 18 clams into groups of 6.





We Remember



5. A large ferry boat traveling between France and England can carry 2,000 passengers. The boat is not always full. On the ferry's first trip, it had 750 empty seats. How many people were riding the ferry?

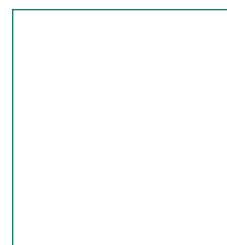


joining



taking away
finding more or less
finding the missing part

Solution



6. On the return trip there were 1,500 people on board. How many more people were riding the ferry on the return trip than on the first trip?

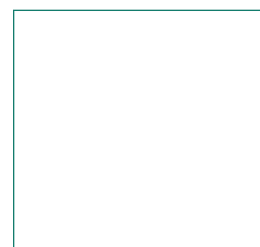


joining



taking away
finding more or less
finding the missing part

Solution



Lesson 3

Mental Math . . . ?

7. $25 - 3 =$ _____ $8 + 50 =$ _____ $700 + 200 =$ _____

8. $130 + 10 =$ _____ $68 - 7 =$ _____ $804 - 400 =$ _____

9. $14 + 7 =$ _____ $300 + 540 =$ _____ $38 + 8 =$ _____

Write the sums and differences. Check the last problem.

10.	$\begin{array}{r} 47 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 326 \\ - 20 \\ \hline \end{array}$	$\begin{array}{r} 86 \\ + 79 \\ \hline \end{array}$	$\begin{array}{r} 387 \\ - 295 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ 8 \\ 3 \\ + 4 \\ \hline \hline \end{array}$
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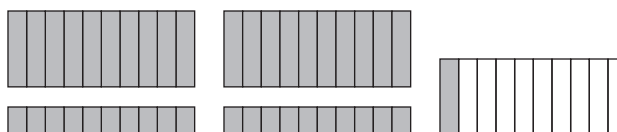
Write the mixed numbers and decimals to show how much is shaded.

11. mixed number _____



12. decimal _____

13. mixed number _____



14. decimal _____

Write a decimal and a mixed number for each.

15. six and three-tenths

6.3 $6\frac{3}{10}$

16. twenty-seven and seven-tenths

17. seven and nine-tenths

18. four and six-tenths

Write the products.

19. $\begin{array}{r} 41 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 42 \\ \times 1 \\ \hline \end{array}$ $\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 24 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 32 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 22 \\ \times 2 \\ \hline \end{array}$

Finish writing the multiples of 7.

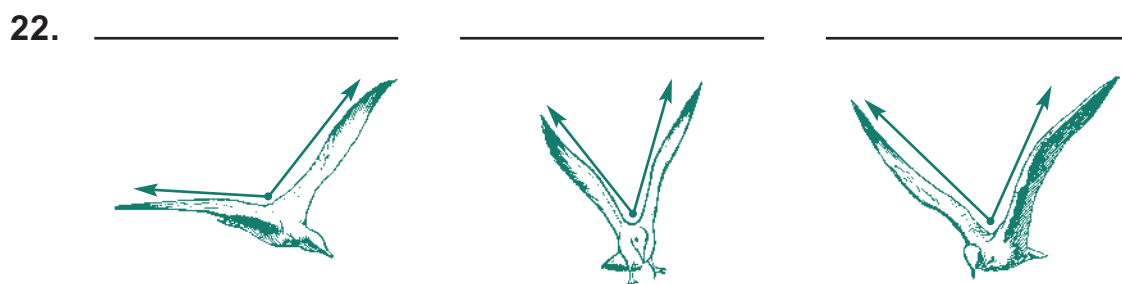
20. $\underline{7}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$ $\underline{\quad}$

Change yards to feet. The first one is done for you.

21.

yards	1	10	8	4	9	6
feet	3					

Look at the angles made by the wings of the seabirds. Write *smallest* above the smallest angle. Write *largest* above the largest angle.



Fact Focus

23. $\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 10 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$

24. $\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$ $\begin{array}{r} 5 \\ \times 10 \\ \hline \end{array}$ $\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$ $\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$

4



- ☐ Count by 10's from 215 to 315.
- ☐ Practice the H and $\times 4$ flash cards for 5 minutes.
- ☐ Do Speed Drill 4 on page 62.
- ☐ Record your score in the graph on page 60.

Read to your teacher.

$\triangle$ $4 + 9 = 13$ \$248.06 400,006 $9 \times 7 > 56$ $45 < 8 \times 9$ $4\frac{5}{6}$

Count by Eight

Counting by eight is saying or writing every eighth number. It will help you learn to multiply eight.

Fill in the missing numbers on this counting chart. This is counting by 8.

1.

1	2	3	4	5	6	7		9	10	11	12	13	14	15	
17	18	19	20	21	22	23		25	26	27	28	29	30	31	
33	34	35	36	37	38	39		41	42	43	44	45	46	47	
49	50	51	52	53	54	55		57	58	59	60	61	62	63	
65	66	67	68	69	70	71		73	74	75	76	77	78	79	

Write the multiples of 8.

2. _____

$\triangle$ Say them to your teacher from memory.



We Remember

Solve.

$$\begin{array}{r} 3. \quad 608 \\ - 399 \\ \hline \end{array}$$

$$\begin{array}{r} \$.79 \\ - .05 \\ \hline \end{array}$$

$$\begin{array}{r} 432 \\ + 394 \\ \hline \end{array}$$

$$\begin{array}{r} 956 \\ - 245 \\ \hline \end{array}$$

$$\begin{array}{r} 444 \\ 322 \\ + 259 \\ \hline \end{array}$$



4. A ribbon worm in the Atlantic Ocean can suddenly change its length. A 3-foot ribbon worm stretched itself 9 feet longer. It then shrank itself 2 feet. How long was the ribbon worm after shrinking?



Solution

Solution



5. How much did you weigh when you were born? A baby blue whale may not seem much like a baby at all. It weighs 2,700 kilograms! How many more kilograms does a baby blue whale weigh than a 4-kilogram baby?

+ joining

− taking away
finding more or less
finding the missing part

Solution

Write a mixed number for each decimal.

6. 23.7 _____ 6.7 _____ 10.5 _____ 3.4 _____

Write the multiples of 8.

7. _____

Lesson 4

Expand the numbers and then solve the problem.

8.
$$\begin{array}{r} 3,642 \\ + 5,234 \\ \hline \end{array}$$

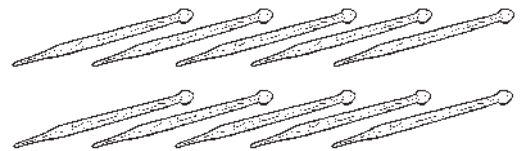
_____ = _____

Divide into equal groups. Write a division sentence.

9. Divide 8 ribbon worms into groups of 2.



10. Divide 10 arrow worms into groups of 5.



Change gallons to quarts.

11.

gallons	3	9	5	1	7	4
quarts						

Count around the clock to find the answer.

12. The sailfish can swim very swiftly. A sailfish swam 40 kilometers in 20 minutes. If the sailfish started at 9:55, what time was it when he reached 40 kilometers?



Discover and finish the pattern.

13. 6:20 6:40 7:00 7:20 _____

14. 8:00 9:00 10:00 11:00 _____

Read the sentences. Change the number words to numbers. Place commas where they are needed.

15. The deepest place in the Pacific Ocean is *eleven thousand, thirty-four* meters deep. _____
16. The Atlantic Ocean is *five thousand, five hundred forty* meters deep. _____
17. A baby seahorse can eat *three thousand, six hundred* baby shrimps in one day. _____

Write a number sentence for each story and solve it.

18. A school of eighteen mullet was swimming. A shark ate five.
How many were left? _____
19. An octopus has eight arms. There are two rows of suction cups on each arm.
How many rows of suction cups does the octopus have?

Write *true* or *false*.

20. The order of factors changes the product. **true** **false**
21. When a factor is zero, the product is zero. **true** **false**

Fact Focus

22.
$$\begin{array}{r} 9 \\ \times \square \\ \hline 36 \end{array}$$

$$\begin{array}{r} \square \\ \times 9 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \square \end{array}$$

$$\begin{array}{r} 9 \\ \times \square \\ \hline 0 \end{array}$$

$$\begin{array}{r} \square \\ \times 9 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline \square \end{array}$$

$$\begin{array}{r} 9 \\ \times \square \\ \hline 54 \end{array}$$

$$\begin{array}{r} \square \\ \times 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \square \end{array}$$

23.
$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 10 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$$