

Name _____

Common Core Standards Practice

3.OA.B.6 Understand division as an unknown-factor problem.

Write a multiplication fact that can help you solve each division number sentence.

1. $12 \div 4 = ?$

2. $35 \div 7 = ?$

3. $7 \div 1 = ?$

4. $36 \div 6 = ?$

5. $25 \div 5 = ?$

6. $27 \div 3 = ?$

7. Which multiplication fact can you use to solve the division number sentence?

$14 \div 7 = \square$

A $7 \times 1 = 7$

B $7 \times 2 = 14$

C $2 \times 14 = 28$

D $7 \times 7 = 49$

8. What multiplication fact can you use to find $72 \div 8$?
9. What multiplication fact can you use to find $48 \div 6$?
10. What are two division number sentences you could solve by using the multiplication fact $7 \times 3 = 21$?
11. What are two division number sentences you could solve by using the multiplication fact $4 \times 8 = 32$?
12. Which division number sentence can you solve using the multiplication fact $10 \times 2 = 20$?
- A $10 \div 2 = ?$
 - B $20 \div 2 = ?$
 - C $10 \div 5 = ?$
 - D $20 \div 5 = ?$

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3.OA.C.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

Solve.

1.
$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

3. $39 \div 3 = \underline{\hspace{2cm}}$

4. $36 \div 9 = \underline{\hspace{2cm}}$

5.
$$\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

7. $54 \div 6 = \underline{\hspace{2cm}}$

8. $72 \div 8 = \underline{\hspace{2cm}}$

9.
$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

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

11. $40 \div 5 = \underline{\hspace{2cm}}$

12. $32 \div 4 = \underline{\hspace{2cm}}$

Solve.

13.
$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

15. $42 \div 6 = \underline{\hspace{2cm}}$

17.
$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

19. $60 \div 5 = \underline{\hspace{2cm}}$

21.
$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

23. $77 \div 11 = \underline{\hspace{2cm}}$

14.
$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

16. $72 \div 6 = \underline{\hspace{2cm}}$

18.
$$\begin{array}{r} 12 \\ \times 8 \\ \hline \end{array}$$

20. $90 \div 9 = \underline{\hspace{2cm}}$

22.
$$\begin{array}{r} 11 \\ \times 6 \\ \hline \end{array}$$

24. $48 \div 4 = \underline{\hspace{2cm}}$

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Common Core Standards Practice

3.OA.D.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

1. Jeremy bought 9 water bottles with a \$20 bill. Each water bottle cost \$2. How much change should Jeremy receive?

a. Write an equation to match the problem. Use the letter c to stand for the missing number.

b. Solve the problem. Explain how you found the answer.

2. Isabel and Hank build birdhouses. Isabel builds 3 birdhouses every day. Hank builds 2 birdhouses every day. How many birdhouses can they build in 5 days?

a. Isabel says they can build 15 birdhouses in 5 days. Is her answer reasonable? Explain how you know.

b. Write an equation to match the problem. Use the letter b to stand for the missing number.

c. Solve the problem. Explain how you found the answer.

3. A box of light bulbs costs \$5. Each box holds 4 light bulbs. How much money will Fran spend to buy 8 light bulbs?

a. Write an equation to match the problem. Use the letter m to stand for the missing number.

b. Solve the problem. Explain how you found the answer.

4. Jerome needs 65 balloons for a party. He already has 18 red balloons and 13 blue balloons. How many more balloons does Jerome need?

a. Write an equation to match the problem. Use the letter b to stand for the missing number.

b. Solve the problem. Explain how you found the answer.

c. Explain how you could use an estimate to check that your answer is reasonable.