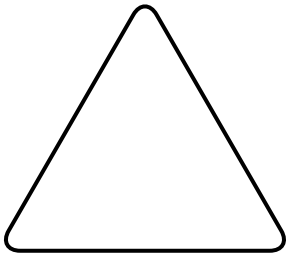
Unit **9**

Unit Assessment, Form A

Name _____

1. How can you use a fact triangle to find a related multiplication equation and the unknown number? Complete the equation and the fact triangle.



$18 \div 3 =$ _____

$3 \times$ _____ $=$ _____

2. Which quotient matches to each division expression? Not all quotients will be used.

	1
	2
$21 \div 7$	3
$63 \div 7$	4
$42 \div 7$	5
$35 \div 7$	6
$7 \div 7$	7
	8
	9

3. Noah buys packs of pencils for 5 friends. He buys 5 packs. Which related division and multiplication equations can Noah use to find the number of packs of pencils he gives each friend? Choose all that apply.

A. $0 \div 5 = 0$ and $5 \times 0 = 0$

B. $5 \div 1 = 5$ and $5 \times 1 = 5$

C. $0 \div 5 = 0$ and $0 \times 5 = 0$

D. $5 \div 5 = 1$ and $1 \times 5 = 5$

4. Jayden divides 14 acorns into 2 equal groups. He writes $14 \div 2 = ?$ for his division equation. Which related multiplication equations can he use to find the unknown quotient? Choose all that apply.

A. $14 = 2 \times ?$

B. $14 \times 2 = ?$

C. $? = 2 \times 14$

D. $? \times 2 = 14$

5. Which related multiplication equations can help you find the quotient for $50 \div 10 = ?$

A. $50 = ? \times 10$

B. $50 \times 10 = ?$

C. $10 \times ? = 50$

D. $10 = 50 \times ?$

6. Kevin sells jars of honey for $8 each. He sells $56 worth of honey. How many jars of honey does Kevin sell?

7. Jasmine buys 54 hamburger buns in all. The hamburger buns come in packs of 6 buns. How many packs of hamburger buns does Jasmine buy?

A. 6 hamburger buns

B. 7 hamburger buns

C. 8 hamburger buns

D. 9 hamburger buns

How can you complete the equation to make it true?

8. $63 \div 9 =$ _____

9. $9 \div$ _____ $= 9$

10. _____ $\times 2 = 18$

11. $15 = 5 \times$ _____

12. $4 = 16 \div$ _____

13. $9 = 3 \times$ _____

14. _____ $\times 10 = 40$

15. _____ $\div 3 = 2$

16. How can you decompose 8×7 to find the product? Choose all that apply.

A. $4 \times 5 + 4 \times 2$

B. $4 \times 7 + 4 \times 7$

C. $2 \times 7 + 2 \times 7$

D. $5 \times 7 + 3 \times 7$

E. $6 \times 5 + 2 \times 2$

F. $8 \times 5 + 8 \times 2$

Unit Assessment, Form A (continued)

Name _____

17. How can you write an unknown factor problem for the division equation 28 ÷ 4 =?

_____ = _____ × ?

18. Which equations are true? Choose all that apply.

A. 7 ÷ 1 = 1

B. 0 ÷ 3 = 0

C. 1 = 5 ÷ 5

D. 0 = 4 ÷ 0

E. 6 = 6 ÷ 1

F. 8 ÷ 0 = 0

How can you write two related division equations for the multiplication fact?

19. 4 × 3 = 12 _____ _____

20. 2 × 6 = 12 _____ _____

21. How can you use the multiplication fact table to write a related multiplication fact and find the unknown quotient?

A. 27 ÷ 9 = _____

9 × _____ = _____

B. 28 ÷ 7 = _____

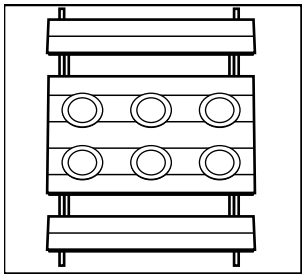
7 × _____ = _____

C. 20 ÷ 10 = _____

10 × _____ = _____

×	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

22. Levon sets tables for a picnic. He sets each table the same way as shown in the image. He uses a total of 36 plates. How many tables does he set? Show your work.



23. Anna has $35. She is buying action figures that cost $5 each. Write an equation and explain how you would solve to find how many action figures she can buy.

How can you find the unknown? Describe the strategy you use.

24. $9 \times 8 = ?$

25. $48 \div 6 = ?$

26. Andy has 6 model cars and 0 model trucks. He wants to put them onto 1 shelf. How many cars and trucks are on each shelf? Show your work.