

Unit Test, Form A (page 1 of 2)

Score / 12

$$\frac{1}{2} = \frac{1}{2} \times \frac{1}{1}$$

$$18 = 2 \times 9$$

18 is times as many as

Cat	17
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Dog

17	17	17	17
----	----	----	----

d

Equation

d = pounds

Equation

f = feet

Kai has cards

Noor has cards

-
- Two 10x10 grids are provided for area measurement. The first grid is a horizontal rectangle, and the second grid is a square. Both grids are empty and intended for students to place unit squares to measure the area of the shapes.

_____ × _____ × _____

Other pair: $\times$

- | Factor | Factor |
|--------|--------|
| | |
| | |
| | |
| | |
| | |
| | |

Factors and Multiples

Unit Test, Form A (page 2 of 2)

7. Is the first number a factor of the second? Circle Yes or No.

Is 4 a factor of 52? Yes No

Is 6 a factor of 75? Yes No

Is 7 a factor of 98? Yes No

8. Skip count by 7s. Write the missing multiples.

21	28		42			63	
----	----	--	----	--	--	----	--

9. Circle every multiple of 6.

18	26	30	42
45	54	58	62

10. Circle the prime numbers. Then write a factor pair that shows 69 is composite.

23	25	27	43
53	61	67	69

69 = ____ × ____

11. Multiply or divide.

$$12 \times 6 = \underline{\hspace{2cm}}$$

$$11 \times 9 = \underline{\hspace{2cm}}$$

$$44 \div 11 = \underline{\hspace{2cm}}$$

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

12. List the factors of each number. Then write the common factors and the greatest common factor (GCF).

16: _____

40: _____

Common: _____

GCF: _____

Unit Test, Form B (page 1 of 2)

Score / 12

- 20** is times as many as

- r =** _____ inches

- v =** boxes

- Liv has books

- Other pair: $\times$

- [illegible]

Factors and Multiples

Unit Test, Form B (page 2 of 2)

7. Is the first number a factor of the second? Circle Yes or No.

Is 3 a factor of 57? Yes No

Is 8 a factor of 68? Yes No

Is 6 a factor of 78? Yes No

8. Skip count by 4s. Write the missing multiples.

56	60		68			80	
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9. Circle every multiple of 8.

24 32 36 48

58 72 74 86

10. Circle the prime numbers. Then write a factor pair that shows 91 is composite.

13 35 41 65

73 79 83 91

91 = ____ × ____

11. Multiply or divide.

$$12 \times 5 = \underline{\hspace{2cm}}$$

$$11 \times 10 = \underline{\hspace{2cm}}$$

$$55 \div 11 = \underline{\hspace{2cm}}$$

$$88 \div 11 = \underline{\hspace{2cm}}$$

12. List the factors of each number. Then write the common factors and the greatest common factor (GCF).

22: _____

66: _____

Common: _____

GCF: _____

Factors and Multiples

Unit Test, Form A (page 1 of 2)

Score _____ / 12

1. Write an equation for the sentence. Then finish the sentence for the equation.

30 is 3 times as many as 10.

$$\underline{30} = \underline{3} \times \underline{10}$$

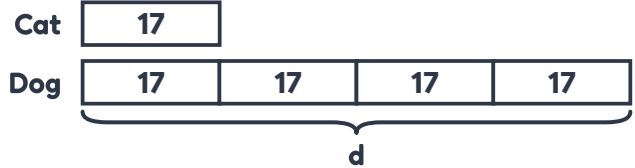
Factors in either order

$$18 = 2 \times 9$$

18 is 2 times as many as 9
Either order Lesson 3.2 · Multiplication as comparison

2. Write an equation. Solve.

A cat weighs 17 pounds. A dog weighs 4 times as much. How heavy is the dog?



Equation $4 \times 17 = d$

One way $d = \underline{68}$ pounds
Lesson 3.3 · Times as many stories

3. Write an equation. Solve.

A tower is 81 feet tall, 9 times as tall as a fence. How tall is the fence?

Equation $81 \div 9 = f$

One way $f = \underline{9}$ feet
Lesson 3.3 · Times as many stories

4. Solve each one. Add or multiply?

Ty has 5 cards.

Kai has 4 more cards than Ty.

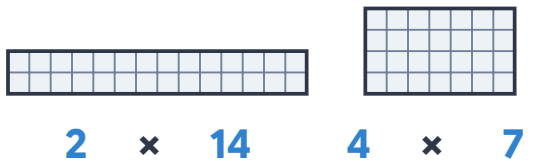
Kai has 9 cards

Noor has 4 times as many cards as Ty.

Noor has 20 cards

Lesson 3.4 · Times as many or how many more?

5. Each rectangle has 28 squares. Write its factor pair. Then write the other pair.



Other pair: 1 × 28

Either order Lesson 3.5 · Factor pairs and rectangles

6. Write every factor pair of 36. You may not need every row.

Factor	Factor
<u>1</u>	<u>36</u>
<u>2</u>	<u>18</u>
<u>3</u>	<u>12</u>
<u>4</u>	<u>9</u>
<u>6</u>	<u>6</u>

Any order
Lesson 3.6 · All the factor pairs

Factors and Multiples

Unit Test, Form A (page 2 of 2)

7. Is the first number a factor of the second? Circle Yes or No.

Is 4 a factor of 52? ☒ Yes ☐ No

Is 6 a factor of 75? ☐ Yes ☒ No

Is 7 a factor of 98? ☒ Yes ☐ No

Lesson 3.6 · All the factor pairs

8. Skip count by 7s. Write the missing multiples.

21 28 35 42 49 56 63 70

Lesson 3.7 · Multiples

9. Circle every multiple of 6.

18 26 30 42
45 54 58 62

Lesson 3.7 · Multiples

10. Circle the prime numbers. Then write a factor pair that shows 69 is composite.

23 25 27 43
53 61 67 69

$$69 = 3 \times 23$$

One way

Lesson 3.8 · Prime and composite numbers

11. Multiply or divide.

$$12 \times 6 = \underline{72}$$

$$11 \times 9 = \underline{99}$$

$$44 \div 11 = \underline{4}$$

$$77 \div 11 = \underline{7}$$

Lesson 3.1 · Facts through 12×12

12. List the factors of each number. Then write the common factors and the greatest common factor (GCF).

16: 1, 2, 4, 8, 16

40: 1, 2, 4, 5, 8, 10, 20, 40

Common: 1, 2, 4, 8

GCF: 8

Lesson 3.9 · Common factors and the GCF

Factors and Multiples

Unit Test, Form B (page 1 of 2)

Score _____ / 12

1. Write an equation for the sentence. Then finish the sentence for the equation.

24 is 4 times as many as 6.

$$\underline{24} = \underline{4} \times \underline{6}$$

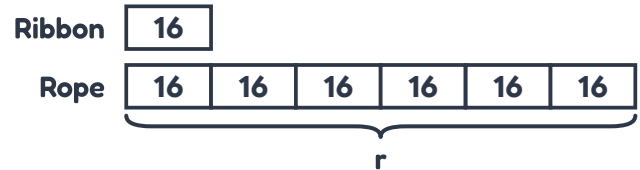
Factors in either order

$$20 = 2 \times 10$$

20 is 2 times as many as 10
 Either order Lesson 3.2 · Multiplication as comparison

2. Write an equation. Solve.

A ribbon is **16** inches long. A rope is **6** times as long. How long is the rope?



Equation $6 \times 16 = r$

One way $r = \underline{96}$ inches
 Lesson 3.3 · Times as many stories

3. Write an equation. Solve.

A truck has **64** boxes, **8** times as many as a van. How many boxes are in the van?

Equation $64 \div 8 = v$

One way $v = \underline{8}$ boxes
 Lesson 3.3 · Times as many stories

4. Solve each one. Add or multiply?

Mo has 10 books.

Jo has **6** more books than Mo.

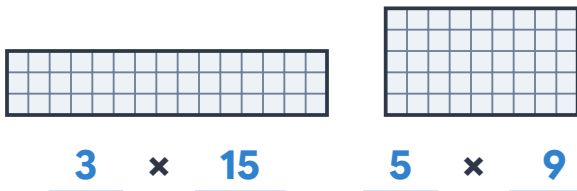
Jo has 16 books

Liv has **6** times as many books as Mo.

Liv has 60 books

Lesson 3.4 · Times as many or how many more?

5. Each rectangle has **45** squares. Write its factor pair. Then write the other pair.



Other pair: 1 × 45

Either order Lesson 3.5 · Factor pairs and rectangles

6. Write every factor pair of **80**. You may not need every row.

Factor	Factor
<u>1</u>	<u>80</u>
<u>2</u>	<u>40</u>
<u>4</u>	<u>20</u>
<u>5</u>	<u>16</u>
<u>8</u>	<u>10</u>

Any order

Lesson 3.6 · All the factor pairs

Factors and Multiples

Unit Test, Form B (page 2 of 2)

7. Is the first number a factor of the second? Circle Yes or No.

Is 3 a factor of 57? ☒ Yes ☐ No

Is 8 a factor of 68? ☐ Yes ☒ No

Is 6 a factor of 78? ☒ Yes ☐ No

Lesson 3.6 · All the factor pairs

8. Skip count by 4s. Write the missing multiples.

56 60 64 68 72 76 80 84

Lesson 3.7 · Multiples

9. Circle every multiple of 8.

24 32 36 48
58 72 74 86

Lesson 3.7 · Multiples

10. Circle the prime numbers. Then write a factor pair that shows 91 is composite.

13 35 41 65
73 79 83 91

$$91 = 7 \times 13$$

One way

Lesson 3.8 · Prime and composite numbers

11. Multiply or divide.

$$12 \times 5 = \underline{60}$$

$$11 \times 10 = \underline{110}$$

$$55 \div 11 = \underline{5}$$

$$88 \div 11 = \underline{8}$$

Lesson 3.1 · Facts through 12×12

12. List the factors of each number. Then write the common factors and the greatest common factor (GCF).

22: 1, 2, 11, 22

66: 1, 2, 3, 6, 11, 22, 33, 66

Common: 1, 2, 11, 22

GCF: 22

Lesson 3.9 · Common factors and the GCF