

Factors and Multiples: Guided Practice

Name: _____

A. The dots show every array for the number. Finish each factor pair. Then list all the factors in order.

1. **15**  $1 \times \square$  $3 \times \square$ Factors: _____

2. **18**  $1 \times \square$  $2 \times \square$  $3 \times \square$ Factors: _____

3. **20**  $1 \times \square$  $2 \times \square$  $4 \times \square$ Factors: _____

B. Write every factor pair. Start with 1. Stop when the pairs meet. Then list all the factors in order.

4. **28** $\square \times \square$ $\square \times \square$ $\square \times \square$ Factors: _____

5. **40** $\square \times \square$ $\square \times \square$ $\square \times \square$ $\square \times \square$ Factors: _____

6. **45** $\square \times \square$ $\square \times \square$ $\square \times \square$ Factors: _____

C. Count by the number. Write its first five multiples. The first one is the number itself.

7. **6** $\square$ $\square$ $\square$ $\square$ $\square$ 8. **9** $\square$ $\square$ $\square$ $\square$ $\square$

Write **factor** or **multiple** on each line.

9. 8 is a _____ of 40. 10. 36 is a _____ of 9.

11. 54 is a _____ of 6. 12. 7 is a _____ of 63.

D. List all the factors. Count them. Then circle **prime** or **composite**.

13. **33** Factors: _____
How many? $\square$ **prime** **composite**

14. **23** Factors: _____
How many? $\square$ **prime** **composite**

15. **53** Factors: _____
How many? $\square$ **prime** **composite**

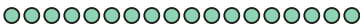
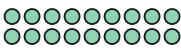
16. **49** Factors: _____
How many? $\square$ **prime** **composite**

Remember: factors go into the number. Multiples are what you say when you count by it.

Factors and Multiples: Guided Practice Answer Key

A. The dots show every array for the number. Finish each factor pair. Then list all the factors in order.

1. **15**  $1 \times \boxed{15}$  $3 \times \boxed{5}$ Factors: 1, 3, 5, 15

2. **18**  $1 \times \boxed{18}$  $2 \times \boxed{9}$  $3 \times \boxed{6}$ Factors: 1, 2, 3, 6, 9, 18

3. **20**  $1 \times \boxed{20}$  $2 \times \boxed{10}$  $4 \times \boxed{5}$ Factors: 1, 2, 4, 5, 10, 20

B. Write every factor pair. Start with 1. Stop when the pairs meet. Then list all the factors in order.

4. **28** $\boxed{1} \times \boxed{28}$ $\boxed{2} \times \boxed{14}$ $\boxed{4} \times \boxed{7}$ Factors: 1, 2, 4, 7, 14, 28

5. **40** $\boxed{1} \times \boxed{40}$ $\boxed{2} \times \boxed{20}$ $\boxed{4} \times \boxed{10}$ $\boxed{5} \times \boxed{8}$ Factors: 1, 2, 4, 5, 8, 10, 20, 40

6. **45** $\boxed{1} \times \boxed{45}$ $\boxed{3} \times \boxed{15}$ $\boxed{5} \times \boxed{9}$ Factors: 1, 3, 5, 9, 15, 45

C. Count by the number. Write its first five multiples. The first one is the number itself.

7. **6** $\boxed{6}$ $\boxed{12}$ $\boxed{18}$ $\boxed{24}$ $\boxed{30}$ 8. **9** $\boxed{9}$ $\boxed{18}$ $\boxed{27}$ $\boxed{36}$ $\boxed{45}$

Write **factor** or **multiple** on each line.

9. 8 is a factor of 40. 10. 36 is a multiple of 9.

11. 54 is a multiple of 6. 12. 7 is a factor of 63.

D. List all the factors. Count them. Then circle **prime** or **composite**.

13. **33** Factors: 1, 3, 11, 33 How many? $\boxed{4}$ **prime** **composite** 14. **23** Factors: 1, 23 How many? $\boxed{2}$ **prime** **composite**

15. **53** Factors: 1, 53 How many? $\boxed{2}$ **prime** **composite** 16. **49** Factors: 1, 7, 49 How many? $\boxed{3}$ **prime** **composite**

Remember: factors go into the number. Multiples are what you say when you count by it.