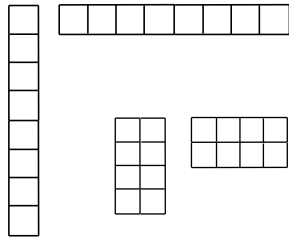## Prime and Composite Numbers

A **prime number** has exactly two factors, 1 and the number itself.

A **composite number** has more than two factors.

The number 1 is a special number because it is neither prime nor composite. It has only 1 factor, 1.

Make arrays to find the factors. Write *prime* or *composite* for each number.

1. 8

2. 23

_____ _____   _____ _____

3. 35

4. 9

_____ _____   _____ _____

5. 24

6. 11

_____ _____   _____ _____

Prime and Composite Numbers

A **prime number** has exactly two factors, 1 and the number itself.

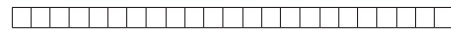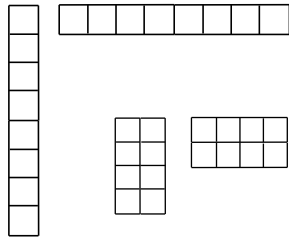A **composite number** has more than two factors.

The number 1 is a special number because it is neither prime nor composite. It has only 1 factor, 1.

Make arrays to find the factors. Write *prime* or *composite* for each number. **Check students' arrays.**

1. 8

_____ **1, 2, 4, 8; composite** _____

2. 23

_____ **1, 23; prime** _____

3. 35

_____ **1, 5, 7, 35; composite** _____

4. 9

_____ **1, 3, 9; composite** _____

5. 24

_____ **1, 2, 3, 4, 6, 8, 12, 24; composite** _____

6. 11

_____ **1, 11; prime** _____

Prime and Composite Numbers

Make arrays to find the factors. Write *prime* or *composite* for each number.

1. 19 _____ 2. 32 _____ 3. 81 _____ 4. 36 _____

_____ _____ _____ _____

5. 27 _____ 6. 56 _____ 7. 29 _____ 8. 18 _____

_____ _____ _____ _____

Write *prime* or *composite* for each number.

9. 42 10. 64 11. 100 12. 72

_____ _____ _____ _____

13. 22 14. 15 15. 91 16. 47

_____ _____ _____ _____

Frances has to stack cans on a shelf. Each stack must have an equal number of cans. How many ways can she stack the cans on the shelf? List the ways.

17. | 12 CANS | 18. | 24 CANS | 19. | 18 CANS |

_____ _____ _____

_____ _____ _____

_____ _____ _____

_____ _____ _____

_____ _____ _____

Mixed Review

20. Train A traveled the 29 miles between Dell City and Mesabi 18 times. Train B traveled the 21 miles between Mesabi and Dodge 24 times. Which train traveled the greater number of miles?

21. Joanna left school at 3:30 P.M. She went to volleyball practice for 90 minutes. She stopped at her aunt's house for 75 minutes, and then spent 15 minutes walking home. What time did she get home?

_____ _____

Name _____

Prime and Composite Numbers

Make arrays to find the factors. Write *prime* or *composite* for each number.
Check students' arrays.

1. 19 ___**1, 19**___
___**prime**___

2. 32 ___**1, 2, 4, 8,**___
16, 32
___**composite**___

3. 81 ___**1, 3, 9, 27,**___
81
___**composite**___

4. 36 ___**1, 2, 3, 4, 6,**___
9, 12, 18, 36
___**composite**___

5. 27 ___**1, 3, 9, 27**___
___**composite**___

6. 56 ___**1, 2, 4, 7, 8,**___
14, 28, 56
___**composite**___

7. 29 ___**1, 29**___
___**prime**___

8. 18 ___**1, 2, 3, 6,**___
9, 18
___**composite**___

Write *prime* or *composite* for each number.

9. 42   **10.** 64   **11.** 100   **12.** 72

___**composite**___   ___**composite**___   ___**composite**___   ___**composite**___

13. 22   **14.** 15   **15.** 91   **16.** 47

___**composite**___   ___**composite**___   ___**composite**___   ___**prime**___

Frances has to stack cans on a shelf. Each stack must have an equal number of cans. How many ways can she stack the cans on the shelf? List the ways.

17.
| 12 CANS |

6 ways: 1 stack of
12, 2 stacks of 6, 3
stacks of 4, 4 stacks
of 3, 6 stacks of 2, 12
stacks of 1

18.
| 24 CANS |

8 ways: 1 stack of 24,
2 stacks of 12, 3
stacks of 8, 4 stacks
of 6, 6 stacks of 4,
8 stacks of 3, 12 stacks
of 2, 24 stacks of 1

19.
| 18 CANS |

6 ways: 1 stack of
18. 2 stacks of 9, 3
stacks of 6, 6 stacks
of 3, 9 stacks of 2,
18 stacks of 1

Mixed Review

20. Train A traveled the 29 miles between Dell City and Mesabi 18 times. Train B traveled the 21 miles between Mesabi and Dodge 24 times. Which train traveled the greater number of miles?

___**Train A, 522 miles**___

21. Joanna left school at 3:30 P.M. She went to volleyball practice for 90 minutes. She stopped at her aunt's house for 75 minutes, and then spent 15 minutes walking home. What time did she get home?

___**6:30 P.M.**___