

Name _____

Factors and Multiples

COMMON CORE STANDARD CC.4.OA.4

Gain familiarity with factors and multiples.

Is the number a multiple of 8? Write *yes* or *no*.

1. 4

2. 8

3. 20

4. 40

Think: Since $4 \times 2 = 8$,
4 is a *factor* of 8, not a
multiple of 8.

no

List the next nine multiples of each number.

Find the common multiples.

5. Multiples of 4: 4, _____

Multiples of 7: 7, _____

Common multiples: _____

6. Multiples of 3: 3, _____

Multiples of 9: 9, _____

Common multiples: _____

7. Multiples of 6: 6, _____

Multiples of 8: 8, _____

Common multiples: _____

Tell whether 24 is a factor or multiple of the number.

Write *factor*, *multiple*, or *neither*.

8. 6 _____

9. 36 _____

10. 48 _____

Problem Solving

REAL WORLD

11. Ken paid \$12 for two magazines. The cost of each magazine was a multiple of \$3. What are the possible prices of the magazines?

12. Jodie bought some shirts for \$6 each. Marge bought some shirts for \$8 each. The girls spent the same amount of money on shirts. What is the least amount they could have spent?

Lesson Check (CC.4.OA.4)

1. Which list shows numbers that are all multiples of 4?
 (A) 2, 4, 6, 8
 (B) 3, 7, 11, 15, 19
 (C) 4, 14, 24, 34
 (D) 4, 8, 12, 16
2. Which of the following numbers is a common multiple of 5 and 9?
 (A) 9
 (B) 14
 (C) 36
 (D) 45

Spiral Review (CC.4.OA.3, CC.4.NBT.2, CC.4.NBT.4, CC.4.NBT.5)

3. Jenny has 50 square tiles. She arranges the tiles into a rectangular array of 4 rows. How many tiles will be left over?
(Lesson 4.3)
 (A) 0
 (B) 1
 (C) 2
 (D) 4
4. Jerome added two numbers. The sum was 83. One of the numbers was 45. What was the other number? (Lesson 1.7)
 (A) 38
 (B) 48
 (C) 42
 (D) 128
5. There are 18 rows of seats in the auditorium. There are 24 seats in each row. How many seats are in the auditorium in all? (Lesson 3.5)
 (A) 42
 (B) 108
 (C) 412
 (D) 432
6. The population of Riverdale is 6,735. What is the value of the 7 in the number 6,735? (Lesson 1.2)
 (A) 7
 (B) 700
 (C) 735
 (D) 7,000