1 Which statement shows the inverse property of multiplication?

a) $1 \times 7 = 7$

b) $7 \times 0 = 0$

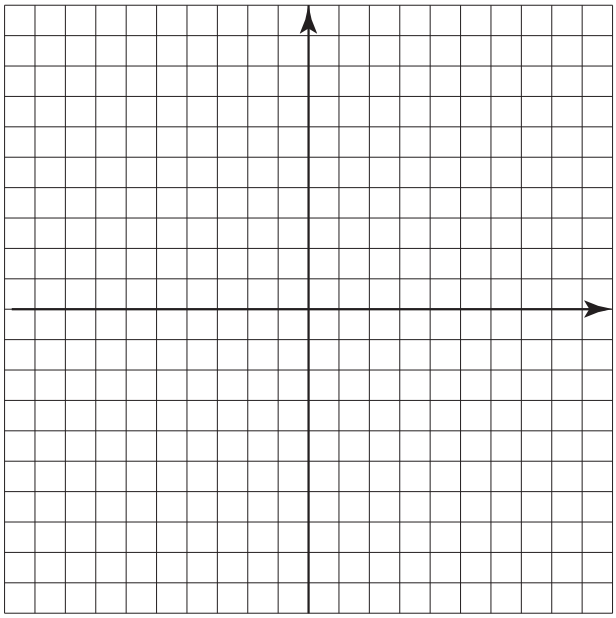
c) $7 \times \frac{1}{7} = 1$

d) $7 + (-7) = 0$

2 A backpack originally cost x dollars. It is now worth \$12 less than four times the original price. Write an expression that describes the situation in factored form.

3 Graph the figure with the given vertices, then find its area.

W(−5, 4), X(2, 2),
Y(2, −3), Z(−5, −6)



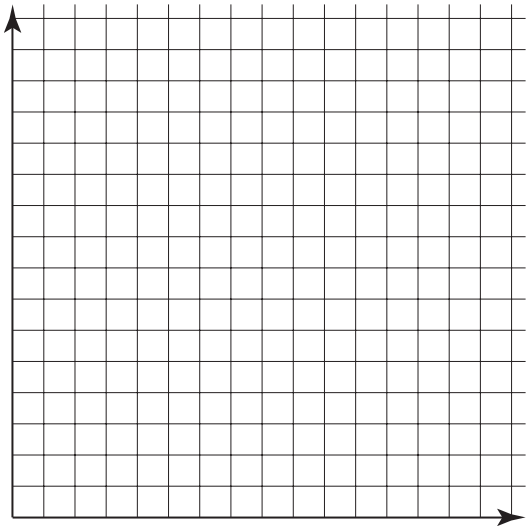
4 Find the value of the expression.

$$6^3 \times 4^2$$

5 A student reads 42 pages on Monday, 38 pages on Tuesday, and 47 pages on Wednesday. The student wants to read 200 pages this week. How many more pages must the student read to reach the goal?

6 A bakery sells 7 muffins for every 3 bagels. Use 1, 2, 3, and 4 times this ratio in the table. Plot these pairs, with muffins on the x-axis.

Muffins	Bagels



7 Evaluate each expression.

a) $-6 \times 4 + 9$

b) $8 \times (-3) - 5$

c) $-7 \times (2 + 3)$

d) $18 \div (-3) \times 4$

e) $-20 + 5 \times (-2)$

f) $(-4 \times 6) + 15$

8 A hiking trail is $14\frac{2}{3}$ mi long. A hiker walked $\frac{5}{7}$ of the trail. After that, he drove $6\frac{1}{2}$ mi home. How many mi did the hiker walk?

9 Evaluate. Write each answer as a fraction in simplest form. Use a mixed number when possible.

a) $2\frac{3}{4} + \frac{5}{6} \times \frac{3}{5} - \frac{7}{12}$

b) $(3\frac{1}{6} - \frac{5}{9}) \div \frac{47}{18}$

c) $\frac{7}{8} \div (\frac{5}{6} - \frac{7}{12}) + \frac{1}{4}$

d) $2\frac{3}{5} - (\frac{3}{10} + \frac{1}{2}) \times \frac{5}{4}$

e) $(\frac{9}{8} + \frac{7}{12}) \div \frac{41}{24} - \frac{1}{3}$

f) $2\frac{5}{6} \times \frac{9}{17} - \frac{2}{3} + \frac{5}{12}$

10 The number of pages read by students is shown in the dot plot below.



a) compare the mean and mode

b) how many students read at least 18 pages?

c) find the interquartile range (IQR)

11 Emma has 90 granola bars and 135 juice boxes. She uses all of them to make identical snack packs. What is the greatest number of packs she can make?

12 Which statements are true? Check all that apply.

a) $|-6.01| = -6.01$

b) $|6.01| = 6.01$

c) $|-\frac{1}{2}| = -\frac{1}{2}$

d) $|-3| = 3$

1. C

2. 4(x - 3)

3. 52.5 square units

4. 3,456

5. 73 pages

6. (7, 3), (14, 6), (21, 9), (28, 12). Plot muffins on the x-axis and bagels on the y-axis.

7. a) -15 b) -29 c) -35 d) -24 e) -30 f) -9

8. 10 4/9 miles

9. a) 2 2/3 b) 1 c) 3 3/4 d) 1 3/5 e) 2/3 f) 1 1/4

10. a) Mean > mode (15.875 > 15) b) 6 students c) 6 pages

11. 45 snack packs

12. B and D

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