



Write systems of equations from contexts

1

The length is seven more than four times the width.

A $l = 7w + 4$

B $l = 4w + 7$

C $l = 4(w + 7)$

D $l = 4w - 7$

E $l = 4w \times 7$

2

Which equations represent what these meals cost

$4(1 \text{ burger} + 3 \text{ salad}) = 16$

$4 \text{ burger} + 4 \text{ salad} = 8$

$1 \text{ burger} + 1 \text{ salad} = ?$

A
$$\begin{aligned} 4(c + 3s) &= 16 \\ 4c + 4s &= 8 \\ c + s &= ? \end{aligned}$$

B
$$\begin{aligned} 4(4c + 3s) &= 16 \\ 7c &= 8 \\ s &= ? \end{aligned}$$

C
$$\begin{aligned} 4(3c + 3s) &= 16 \\ 7c + 4s &= 8 \\ c + 4s &= ? \end{aligned}$$

D
$$\begin{aligned} 4(c + 3s) &= 16 \\ 7c + s &= 8 \\ 4s &= ? \end{aligned}$$

3

Which equations represent what these meals cost

$3(1 \text{ burger} + 2 \text{ salad}) = 30$

$4 \text{ burger} + 2 \text{ salad} = 16$

$1 \text{ burger} + 1 \text{ salad} = ?$

A
$$\begin{aligned} 3(h + 2n) &= 30 \\ 4h + 2n &= 16 \\ h + n &= ? \end{aligned}$$

B
$$\begin{aligned} 3(h + n) &= 30 \\ 4h &= 16 \\ h &= ? \end{aligned}$$

C
$$\begin{aligned} 3(h + n) &= 30 \\ 4h &= 16 \\ 2h &= ? \end{aligned}$$

D
$$\begin{aligned} 3(h + n) &= 30 \\ 4h &= 16 \\ n &= ? \end{aligned}$$

4

Which equations represent what these meals cost

$4(4 \text{ salad} + 4 \text{ fries}) = 112$

$4 \text{ salad} + 2 \text{ fries} = 22$

$1 \text{ salad} + 1 \text{ fries} = ?$

A
$$\begin{aligned} 4(3s + 6f) &= 112 \\ 7s + 4f &= 22 \\ s &= ? \end{aligned}$$

B
$$\begin{aligned} 4(4s + 6f) &= 112 \\ 4s + 4f &= 22 \\ f &= ? \end{aligned}$$

C
$$\begin{aligned} 4(4s + 4f) &= 112 \\ 4s + 2f &= 22 \\ s + f &= ? \end{aligned}$$

D
$$\begin{aligned} 4(3s + 5f) &= 112 \\ 4s + 4f &= 22 \\ 4s &= ? \end{aligned}$$



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5

Which equations represent what these meals cost

$$4(2 \text{ donut} + 6 \text{ bowl}) = 112$$

$$4 \text{ donut} + 2 \text{ bowl} = 26$$

$$1 \text{ donut} + 1 \text{ bowl} = ?$$

A
$$\begin{aligned} 4(2d + 6n) &= 112 \\ 4d + 2n &= 26 \\ 2d &=? \end{aligned}$$

B
$$\begin{aligned} 4(2d + 6n) &= 112 \\ 4d + 2n &= 26 \\ d + n &=? \end{aligned}$$

C
$$\begin{aligned} 4(2d + 6n) &= 112 \\ 4d + 2n &= 26 \\ n &=? \end{aligned}$$

D
$$\begin{aligned} 4(2d + 6n) &= 112 \\ 4d + 2n &= 26 \\ 2d + n &=? \end{aligned}$$

6

Which equations represent what these meals cost

$$4(2 \text{ apple} + 6 \text{ donut}) = 112$$

$$2 \text{ apple} + 3 \text{ donut} = 19$$

$$1 \text{ apple} + 1 \text{ donut} = ?$$

A
$$\begin{aligned} 4(2a + 8d) &= 112 \\ 3d &= 19 \\ a &=? \end{aligned}$$

B
$$\begin{aligned} 4(2a + 8d) &= 112 \\ 3d &= 19 \\ d &=? \end{aligned}$$

C
$$\begin{aligned} 4(2a + 8d) &= 112 \\ 3d &= 19 \\ 3a + d &=? \end{aligned}$$

D
$$\begin{aligned} 4(2a + 6d) &= 112 \\ 2a + 3d &= 19 \\ a + d &=? \end{aligned}$$

7

Which equations represent what these meals cost

$$3(1 \text{ fries} + 3 \text{ apple}) = 51$$

$$3 \text{ fries} + 3 \text{ apple} = 27$$

$$1 \text{ fries} + 1 \text{ apple} = ?$$

A
$$\begin{aligned} 3(2a) &= 51 \\ 3f + 8a &= 27 \\ f &=? \end{aligned}$$

B
$$\begin{aligned} 3(f + 3a) &= 51 \\ 3f + 3a &= 27 \\ f + a &=? \end{aligned}$$

C
$$\begin{aligned} 3(2a) &= 51 \\ 3f + 8a &= 27 \\ f + 2a &=? \end{aligned}$$

D
$$\begin{aligned} 3(f + 2a) &= 51 \\ 3f + 5a &= 27 \\ f + 2a &=? \end{aligned}$$

8

Which equations represent what these meals cost

$$4(4 \text{ apple} + 4 \text{ salad}) = 144$$

$$4 \text{ apple} + 1 \text{ salad} = 21$$

$$1 \text{ apple} + 1 \text{ salad} = ?$$

A
$$\begin{aligned} 4(4a + 4s) &= 144 \\ 4a + 4s &= 21 \\ 2s &=? \end{aligned}$$

B
$$\begin{aligned} 4(4a + 4s) &= 144 \\ 4a + 4s &= 21 \\ 3s &=? \end{aligned}$$

C
$$\begin{aligned} 4(4a + 4s) &= 144 \\ 4a + s &= 21 \\ a + s &=? \end{aligned}$$

D
$$\begin{aligned} 4(4a + 4s) &= 144 \\ 4a + 4s &= 21 \\ s &=? \end{aligned}$$

**Write systems of equations from contexts****9**

Which equations represent what these meals cost

$$3 \text{ burger} + 3 \text{ donut} = 30$$

$$3(1 \text{ burger} + 2 \text{ donut}) = 45$$

$$1 \text{ burger} + 1 \text{ donut} = ?$$

A

$$\begin{aligned} 2h + 3d &= 30 \\ 3(h + 3d) &= 45 \\ d &=? \end{aligned}$$

B

$$\begin{aligned} 2h + 3d &= 30 \\ 3(h + 3d) &= 45 \\ 2d &=? \end{aligned}$$

C

$$\begin{aligned} 2h + 3d &= 30 \\ 3(h + 3d) &= 45 \\ 4d &=? \end{aligned}$$

D

$$\begin{aligned} 3h + 3d &= 30 \\ 3(h + 2d) &= 45 \\ h + d &=? \end{aligned}$$

10

Which equations represent what these meals cost

$$2(2 \text{ bowl} + 6 \text{ fries}) = 52$$

$$2 \text{ bowl} + 1 \text{ fries} = 6$$

$$1 \text{ bowl} + 1 \text{ fries} = ?$$

A

$$\begin{aligned} 2(2n + 6f) &= 52 \\ 2n + f &= 6 \\ n + f &=? \end{aligned}$$

B

$$\begin{aligned} 2(3n + 6f) &= 52 \\ 2n + f &= 6 \\ 3n &=? \end{aligned}$$

C

$$\begin{aligned} 2(2n + 6f) &= 52 \\ 2n + f &= 6 \\ n &=? \end{aligned}$$

D

$$\begin{aligned} 2(3n + 6f) &= 52 \\ 2n + f &= 6 \\ 2n &=? \end{aligned}$$

11

Which equations represent what these meals cost

$$4(1 \text{ bowl} + 3 \text{ fries}) = 28$$

$$4 \text{ bowl} + 2 \text{ fries} = 18$$

$$1 \text{ bowl} + 1 \text{ fries} = ?$$

A

$$\begin{aligned} 4(3n) &= 28 \\ n + 2f &= 18 \\ n &=? \end{aligned}$$

B

$$\begin{aligned} 4(3n + 3f) &= 28 \\ 3n + 2f &= 18 \\ f &=? \end{aligned}$$

C

$$\begin{aligned} 4(n + 3f) &= 28 \\ 4n + 2f &= 18 \\ n + f &=? \end{aligned}$$

D

$$\begin{aligned} 4(5n) &= 28 \\ n + 2f &= 18 \\ 3n &=? \end{aligned}$$

12

Which equations represent what these meals cost

$$4(1 \text{ salad} + 3 \text{ burger}) = 40$$

$$4 \text{ salad} + 1 \text{ burger} = 7$$

$$1 \text{ salad} + 1 \text{ burger} = ?$$

A

$$\begin{aligned} 4(s) &= 40 \\ 6s + h &= 7 \\ 5s &=? \end{aligned}$$

B

$$\begin{aligned} 4(s) &= 40 \\ 6s + h &= 7 \\ 3s &=? \end{aligned}$$

C

$$\begin{aligned} 4(s + 2h) &= 40 \\ 4s + h &= 7 \\ 3s + h &=? \end{aligned}$$

D

$$\begin{aligned} 4(s + 3h) &= 40 \\ 4s + h &= 7 \\ s + h &=? \end{aligned}$$