

Read an expression as a structure without evaluating

NAME	DATE	SCORE / 10
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1 4 friends each buy a movie ticket for x dollars and a drink for \$2. What does $4(x + 2)$ show?

- ☐ The cost, in dollars, for one friend ☐ The total cost, in dollars, for all 4 friends
☐ The cost, in dollars, of 4 tickets and one drink

2 A garden is l metres long and w metres wide. You do not need its value. Write in words what $2(l + w)$ shows.

3 A shirt costs x dollars before tax. The tax is 5% of the price. What does $x + 0.05x$ show?

- ☐ The cost of the shirt with the tax ☐ The cost of the shirt before the tax
☐ The amount of the tax

4 A shirt costs x dollars before tax. The tax is 4% of the price. You do not need its value. Write in words what $x + 0.04x$ shows.

5 Ivy scored a points on one test and b points on another. What does $(a + b) \div 2$ show?

- ☐ Ivy's mean score on the two tests ☐ Half of Ivy's first score, plus the second score
☐ Ivy's total score on the two tests
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6 A game costs x dollars. The store takes 25% off the price. You do not need its value. Write in words what $x - 0.25x$ shows.

7 A game costs x dollars. The store takes 25% off the price. What does $x - 0.25x$ show?

- ☐ The new price of the game ☐ The price of the game before the sale
☐ The amount taken off the price
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8 Leo scored a points on one test and b points on another. You do not need its value. Write in words what $(a + b) \div 2$ shows.

9 A garden is l metres long and w metres wide. What does $2(l + w)$ show?

- ☐ The area of the garden, in square metres ☐ The distance around the garden, in metres
☐ The length plus the width of the garden, in metres

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A room is l metres long and w metres wide. You do not need its value. Write in words what $2(l + w)$ shows.

Read an expression as a structure without evaluating

1 The total cost, in dollars, for all 4 friends

3 The cost of the shirt with the tax

5 Ivy's mean score on the two tests

7 The new price of the game

9 The distance around the garden, in metres

2 A written explanation

A model answer: It adds the two lengths and the two widths: the distance around the garden, in metres.

What counts as right: Counts as right if it makes these points: (1) it counts each length and each width twice, once for each side; (2) so it is the total of all four sides; (3) the distance around the garden, in metres. Saying “the area”, or only a number worked out for it, does not count.

4 A written explanation

A model answer: $0.04x$ is the tax, 4% of the price. Adding it to x , the price, gives what the shirt costs with the tax.

What counts as right: Counts as right if it makes these points: (1) $0.04x$ is the tax, 4% of x ; (2) x is the price before tax; (3) so the sum is the cost of the shirt with the tax. Saying “the amount of the tax”, or only a number worked out for it, does not count.

6**A written explanation**

A model answer: $0.25x$ is the amount taken off, 25% of the price. Taking it away from x leaves the new price of the game.

What counts as right: Counts as right if it makes these points: (1) $0.25x$ is the amount taken off, 25% of x ; (2) it is taken away from the price x ; (3) so it is the new price of the game. Saying “the amount taken off”, or only a number worked out for it, does not count.

8**A written explanation**

A model answer: $a + b$ is Leo's total on the two tests. Dividing it by 2 shares it equally between them: Leo's mean score.

What counts as right: Counts as right if it makes these points: (1) $a + b$ is the total of the two scores; (2) dividing by 2 shares the total equally between the two tests; (3) so it is Leo's mean score. Saying “the total score”, or only a number worked out for it, does not count.

10**A written explanation**

A model answer: It adds the two lengths and the two widths: the distance around the room, in metres.

What counts as right: Counts as right if it makes these points: (1) it counts each length and each width twice, once for each side; (2) so it is the total of all four sides; (3) the distance around the room, in metres. Saying “the area”, or only a number worked out for it, does not count.