Algebraic Expressions, Linear Equations, and Perimeter & Area

CITIUS

WORKSHEET 5



Question 3Which of the following gives the value of x for the equation given below? $4.2x = 60$ • Add 4.2 to each side of the equation. • Subtract 4.2 from each side of the equation. • Multiply each side of the equation by 4.2.Question 4Power of variable in a simple linear equation is $$ Question 4Power of variable in a simple linear equation is $$ Question 5Which of these algebraic expressions represents 18 less than twice a number (m)? \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot <br< th=""><th></th><th></th></br<>		
4.2x = 60• Add 4.2 to each side of the equation.• Subtract 4.2 from each side of the equation by 4.2.• Divide each side of the equation by 4.2.Question 4Power of variable in a simple linear equation is• 0• 1• 2• 3Question 5Which of these algebraic expressions represents 18 less than twice a number (m)?• 18 - 2m • 2m - 18 • 18 + 2m • m - 2(18)Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$	Question 3	Which of the following gives the value of <i>x</i> for the equation given below?
• Add 4.2 to each side of the equation.• Subtract 4.2 from each side of the equation.• Multiply each side of the equation by 4.2.• Divide each side of the equation by 4.2.Question 4Power of variable in a simple linear equation is• 0• 1• 2• 3Question 5Which of these algebraic expressions represents 18 less than twice a number (m)?• 18 - 2m • 2m - 18 • 18 + 2m • m - 2(18)Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		4.2x = 60
• Subtract 4.2 from each side of the equation.• Multiply each side of the equation by 4.2.• Divide each side of the equation by 4.2.Question 4Power of variable in a simple linear equation is• 0• 1• 2• 3Question 5Which of these algebraic expressions represents 18 less than twice a number (m)?• 18 - 2m• 2m - 18• 18 + 2m• m - 2(18)Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$		• Add 4.2 to each side of the equation.
• Multiply each side of the equation by 4.2.• Divide each side of the equation by 4.2.Question 4Power of variable in a simple linear equation is• 0• 1• 2• 3Question 5Which of these algebraic expressions represents 18 less than twice a number (m)?• 18 - 2m• 2m - 18• 18 + 2m• m - 2(18)Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$		• Subtract 4.2 from each side of the equation.
• Divide each side of the equation by 4.2.Question 4Power of variable in a simple linear equation is• 0• 1• 2• 3Question 5Which of these algebraic expressions represents 18 less than twice a number (m)?• 18 - 2m• 2m - 18• 18 + 2m• m - 2(18)Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $-2y - 2z$		• Multiply each side of the equation by 4.2.
Question 4Power of variable in a simple linear equation is \cdot <		• Divide each side of the equation by 4.2.
\cdot \cdot \cdot 0 \cdot 1 \cdot 2 \cdot 3 Question 5Which of these algebraic expressions represents 18 less than twice a number (m)? \cdot $18 - 2m$ \cdot $2m - 18$ \cdot $18 + 2m$ \cdot $18 + 2m$ \cdot $m - 2(18)$ Question 6What should be added to $x - y - z$ to get $x + y + z$? \cdot $-x - y - z$ \cdot $2y + 2z$ \cdot $2y - 2z$ \cdot $-2y - 2z$	Question 4	Power of variable in a simple linear equation is
Question 6 • 0 • 1 • 2 • 3 Question 5 Which of these algebraic expressions represents 18 less than twice a number (m)? • 18 – 2m • 2m – 18 • 18 + 2m • m – 2(18) Question 6 What should be added to $x - y - z$ to get $x + y + z$? • $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		· · · ·
• 1• 2• 3Question 5Which of these algebraic expressions represents 18 less than twice a number (m) ?• 18 - 2m • 2m - 18 • 18 + 2m • m - 2(18)Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		• ()
• 2• 3Question 5Which of these algebraic expressions represents 18 less than twice a number (m) ?• 18 - 2m • 2m - 18 • 18 + 2m • m - 2(18)Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		• 1
• 3Question 5Which of these algebraic expressions represents 18 less than twice a number (m) ?• $18 - 2m$ • $2m - 18$ • $18 + 2m$ • $m - 2(18)$ Question 6What should be added to $x - y - z$ to get $x + y + z$? • $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		• 2
Question 5Which of these algebraic expressions represents 18 less than twice a number (m) ?• $18 - 2m$ • $2m - 18$ • $18 + 2m$ • $m - 2(18)$ Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		• 3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Question 5	Which of these algebraic expressions represents 18 less than twice a number (<i>m</i>)?
$\begin{array}{c cccc} & & & 2m-18 \\ & & & 18+2m \\ & & & m-2(18) \\ \hline \\ \text{Question 6} & \text{What should be added to } x-y-z \text{ to get } x+y+z? \\ & & & -x-y-z \\ & & & 2y+2z \\ & & & 2y+2z \\ & & & 2x-2y-2z \\ & & & -2y-2z \\ & & & -2y-2z \end{array}$		• $18 - 2m$
$ \begin{array}{c} \bullet 18 + 2m \\ \bullet m - 2(18) \\ \hline \text{Question 6} \\ \text{What should be added to } x - y - z \text{ to get } x + y + z? \\ \bullet -x - y - z \\ \bullet 2y + 2z \\ \bullet 2x - 2y - 2z \\ \bullet -2y - 2z \\ \bullet -2y - 2z \\ \end{array} $		• $2m - 18$
• $m - 2(18)$ Question 6What should be added to $x - y - z$ to get $x + y + z$?• $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		• 18 + 2 <i>m</i>
Question 6 What should be added to $x - y - z$ to get $x + y + z$? • $-x - y - z$ • $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		• $m - 2(18)$
-x - y - z $ 2y + 2z $ $ 2x - 2y - 2z $ $ -2y - 2z$	Question 6	What should be added to $x - y - z$ to get $x + y + z$?
• $2y + 2z$ • $2x - 2y - 2z$ • $-2y - 2z$		• $-x-y-z$
• $2x - 2y - 2z$ • $-2y - 2z$		• $2y + 2z$
• $-2y-2z$		• $2x-2y-2z$
		• $-2y-2z$

Question 7	Mary wants new carpeting for her dining room floor. The dining room is 11.9 m by 11.1 m. How much carpeting material does she need to buy to cover her entire dining room?
	• 23 sq. m
	• 30 sq. m
	• 100 sq. m
	• 132.09 sq. m
Question 8	Adiba knitted a rectangular muffler that has an area of 24 square metres. If the width of the muffler is 200 cm, what is the perimeter?
	• 22 m
	• 24 m
	• 26 m
	• 28 m
Question 9	If the length and breadth of a rectangle are in the ratio 5 : 3 and its perimeter is 144 m, what is the area of the rectangle?
	• 1115 m ²
	• 1215 m ²
	• 1315 m ²
	• 1415 m ²

Question 10	If the side of a square is doubled, its area becomes:
	• double
	• 3 times
	• 4 times
	• 8 times

- X -

Answers

Answer 1	t = 2r - 3
Answer 2	0
Answer 3	Divide each side of the equation by 4.2.
Answer 4	1
Answer 5	2m - 18
Answer 6	2y + 2z
Answer 7	132.09 sq. m
Answer 8	28 m
Answer 9	1215 m ²
Answer 10	4 times

- x -