

Year 6 Maths Activity Mat

6

Section 1

A bag of balls contains 3 red and 5 blue balls. A school buys some bags of balls. There are 9 red balls. How many blue balls are there?

Section 4

Calculate:

$$\frac{1}{2} + \frac{1}{4} =$$

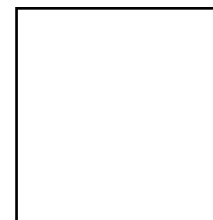
$$\frac{2}{3} - \frac{1}{6} =$$

Section 5

There are 20 people in a cinema. Adults pay £10 and children £6. The takings are £164. How many children are in the cinema?

Section 7

Calculate the angles in this square:



Section 2

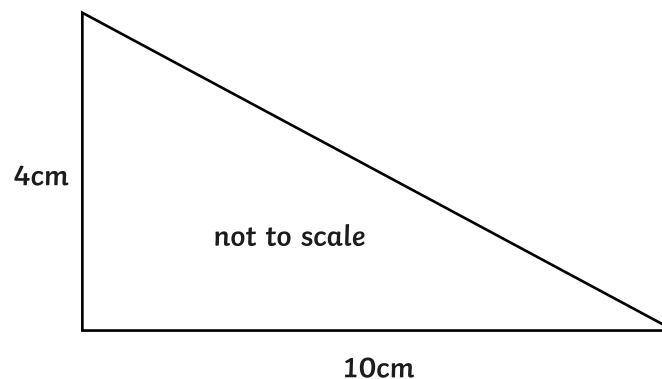
$$y = x + 2$$

If $x = 6$, what is y ?

If $y = 5$, what is x ?

Section 6

Calculate the area of this right angled triangle:



Section 8

Express the answer to this word problem algebraically, using t to represent the number of t-shirts being washed:

Alison has 12 t-shirts. 7 are in her drawer. The rest are being washed. How many t-shirts are being washed?

Year 6 Maths Activity Mat: 6

Answers

Section 1

A bag of balls contains 3 red and 5 blue balls. A school buys some bags of balls. There are 9 red balls. How many blue balls are there?

15 blue balls

Section 2

$$y = x + 2$$

If $x = 6$, what is y ?

8

If $y = 5$, what is x ?

3

Section 3

Calculate:

25% of £24 =

£6

10% of £32 =

£3.20

Section 4

Calculate:

$$\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$$

$$\frac{2}{3} - \frac{1}{6} = \frac{3}{6} \text{ or } \frac{1}{2}$$

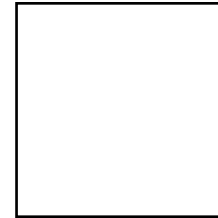
Section 5

There are 20 people in a cinema. Adults pay £10 and children £6. The takings are £164. How many children are in the cinema?

9 children

Section 7

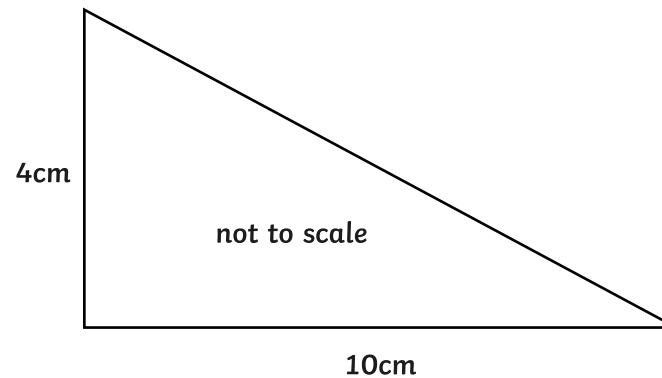
Calculate the angles in this square:



90°

Section 6

Calculate the area of this right angled triangle:



20cm²

Section 8

Express the answer to this word problem algebraically, using t to represent the number of t-shirts being washed:

Alison has 12 t-shirts. 7 are in her drawer. The rest are being washed. How many t-shirts are being washed?

$t = 12 - 7$ or $12 = t + 7$

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Section 1

A bag of balls contains 2 red, 1 green and 3 blue balls. A school needs 15 blue balls. How many red and green balls will they get?

red:

Green:

Section 2

$$y = 2x + 3$$

If $x = 6$, what is y ?

If $y = 5$, what is x ?

Section 3

Calculate:

15% of £45 =

70% of £64 =

Section 4

Calculate:

$$\frac{1}{3} + \frac{1}{6} = \text{$$

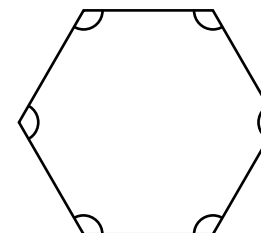
$$\frac{3}{4} - \frac{1}{8} = \text{$$

Section 5

There are 30 people in a cinema. Adults pay £9 and children £6.50. The takings are £237.50. How many children are in the cinema?

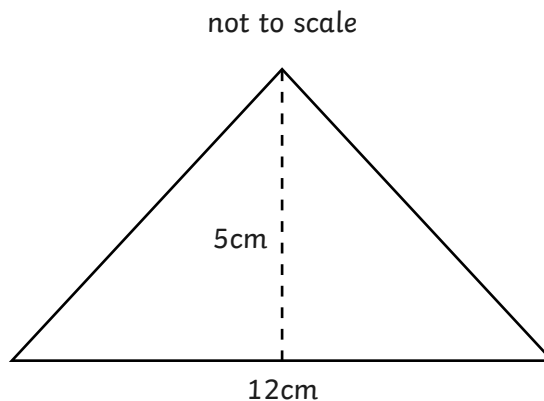
Section 7

Calculate the angles in this regular hexagon:



Section 6

Calculate the area of this triangle:



Section 8

Express the answer to this word problem algebraically, using t to represent the number of t-shirts in the stock room:

A shop has 45 t-shirts. 21 are in the shop. The rest are in the stock room. How many t-shirts are in the stock room?

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Answers

Section 1

A bag of balls contains 2 red, 1 green and 3 blue balls. A school needs 15 blue balls. How many red and green balls will they get?

red: **10**

Green: **5**

Section 2

$$y = 2x + 3$$

If $x = 6$, what is y ? **15**

If $y = 5$, what is x ? **1**

Section 3

Calculate:

15% of £45 = **£6.75**

70% of £64 = **£44.80**

Section 4

Calculate:

$$\frac{1}{3} + \frac{1}{6} = \frac{3}{6} \text{ or } \frac{1}{2}$$

$$\frac{3}{4} - \frac{1}{8} = \frac{5}{8}$$

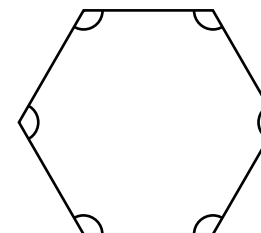
Section 5

There are 30 people in a cinema. Adults pay £9 and children £6.50. The takings are £237.50. How many children are in the cinema?

13 children

Section 7

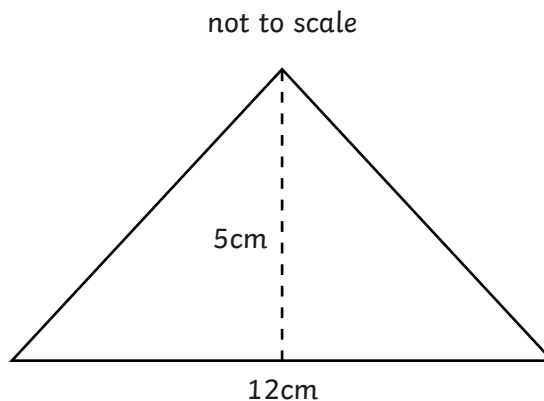
Calculate the angles in this regular hexagon:



120°

Section 6

Calculate the area of this triangle:



30cm²

Section 8

Express the answer to this word problem algebraically, using t to represent the number of t-shirts in the stock room:

A shop has 45 t-shirts. 21 are in the shop. The rest are in the stock room. How many t-shirts are in the stock room?

$t = 45 - 21$ or $45 = t + 21$

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Section 1

Bags of marbles contain 4 blue, 2 red, 1 yellow, 3 green marbles. Alex wants 18 green marbles. How many blue, red and yellow marbles will he get?

blue: yellow:

red:

Section 2

$$2y = x + 5$$

If $x = 7$, what is y ?

If $y = 3$, what is x ?

Section 3

Calculate:

$$12\% \text{ of } £58 = \text{ }$$

$$87\% \text{ of } £142 = \text{ }$$

Section 4

Calculate:

$$\frac{1}{8} + \frac{1}{4} + \frac{1}{2} = \text{ }$$

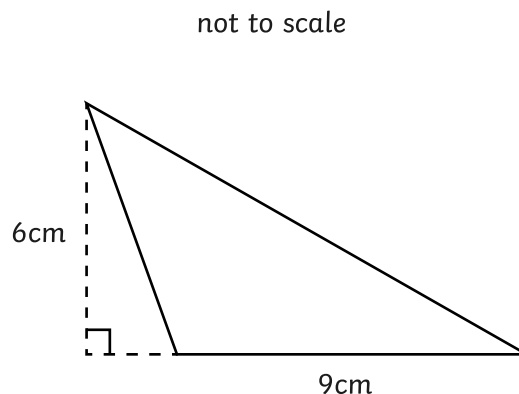
$$\frac{2}{3} - \frac{3}{12} = \text{ }$$

Section 5

There are 54 people in a cinema. Adults pay £9.50 and children £6.50. The takings are £438. How many children are in the cinema?

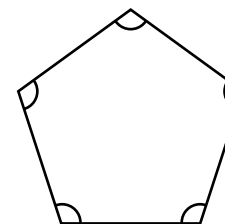
Section 6

Calculate the area of this triangle:



Section 7

Calculate the angles in this pentagon:



Section 8

Express the answer to this word problem algebraically, using t to represent the number of t-shirts in the stock room:

A shop has 67 t-shirts. 26 are on the shelves, 9 are on a sale rail. The rest are in the stock room. How many t-shirts are in the stock room?

Year 6 Maths Activity Mat: 6

Answers

Section 1

Bags of marbles contain 4 blue, 2 red, 1 yellow, 3 green marbles. Alex wants 18 green marbles. How many blue, red and yellow marbles will he get?

blue: **24**

yellow: **6**

red: **12**

Section 2

$$2y = x + 5$$

If $x = 7$, what is y ?

6

If $y = 3$, what is x ?

1

Section 3

Calculate:

$$12\% \text{ of } £58 = \mathbf{£6.96}$$

$$87\% \text{ of } £142 = \mathbf{£123.54}$$

Section 4

Calculate:

$$\frac{1}{8} + \frac{1}{4} + \frac{1}{2} = \mathbf{\frac{7}{8}}$$

$$\frac{2}{3} - \frac{3}{12} = \mathbf{\frac{5}{12}}$$

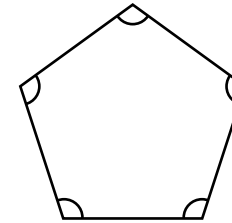
Section 5

There are 54 people in a cinema. Adults pay £9.50 and children £6.50. The takings are £438. How many children are in the cinema?

25 children

Section 7

Calculate the angles in this regular hexagon:

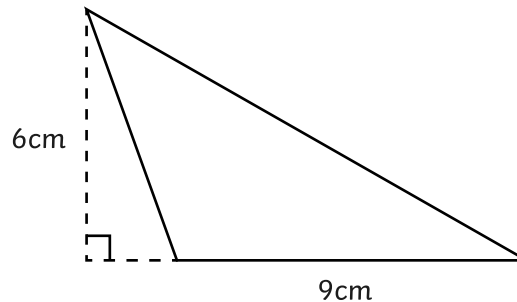


108°

Section 6

Calculate the area of this triangle:

not to scale



27cm²

Section 8

Express the answer to this word problem algebraically, using t to represent the number of t-shirts in the stock room:

A shop has 67 t-shirts. 26 are on the shelves, 9 are on a sale rail. The rest are in the stock room. How many t-shirts are in the stock room?

$$67 = 26 + 9 + t;$$

or

$$t = 67 - (26 + 9);$$

or

$$t = 67 - 26 - 9$$