

Year 6 Spring 2 Maths Activity Mat

6

1 A bag of mini chocolate eggs contains five milk chocolate eggs and three plain chocolate eggs. Genesis would like 12 plain chocolate eggs. How many milk chocolate eggs will she have?

$$y = 2x + 1$$

If $x = 5$, what is y ? _____

If $y = 5$, what is x ? _____

3 Calculate:

$$20\% \text{ of } \pounds 15 =$$

$$75\% \text{ of } \pounds 40 =$$

4 Calculate:

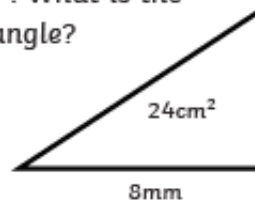
$$\frac{2}{5} + \frac{3}{10} =$$

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

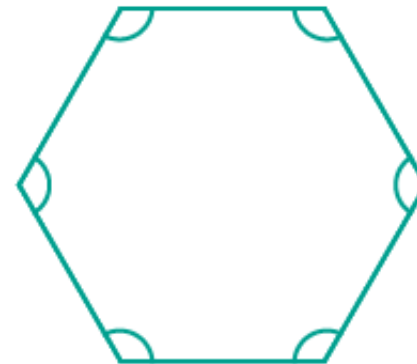
5 For Comic Relief, a class of children pay £2 each to wear pyjamas. 28 children wear pyjamas. They also raise money by selling cakes. Altogether, the class raise £72.50. How much did selling the cakes raise?

6 This right-angled triangle has an area of 24cm^2 . What is the height of the triangle?

Height: _____



7 Calculate the angles in this hexagon:



8 Express the answer to this word problem algebraically, using h to represent the number of hours Nieve is awake in a day, when she sleeps for nine hours.

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1
Bags of mini chocolate eggs contain six milk chocolate eggs, five plain chocolate eggs and three white chocolate eggs. Jake would like 15 plain chocolate eggs. How many milk and white chocolate eggs will he have?

2
 $y = 3x + 7$
If $x = 4$, what is y ? _____
If $y = 31$, what is x ? _____

3
Calculate:
15% of £46 =
80% of £125 =

4
Calculate:
 $\frac{1}{4} + \frac{5}{8} =$ $\frac{9}{10} - \frac{3}{5} =$

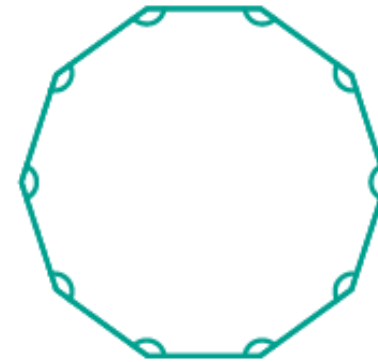
5
For Comic Relief, a school have two activities. Children paid £1.50 to not wear uniform. There was also a bake sale that raised £56.25 out of the total £423.75. How many children did not wear school uniform?

6
This triangle has an area of 32cm^2 . Calculate the height of the triangle.



Height: _____

7
Calculate the angles in this regular decagon:



8
Express the answer to this word problem algebraically, using h to represent the number hours Miles is asleep in a day, when he spends seven hours at school and is awake for another nine hours.

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1 Anita buys some packs of chocolate eggs. She has 32 plain chocolate eggs, 20 milk chocolate eggs and 12 milk chocolate eggs. There are 16 eggs in a pack. How many of each egg are in a pack?

$$2y = 5x + 9$$

If $x = 3$, what is y ? _____

If $y = 7$, what is x ? _____

3 Calculate:

$$13\% \text{ of } \pounds 72 =$$

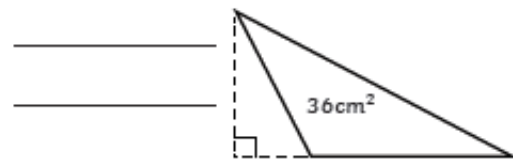
$$37.5\% \text{ of } \pounds 186 =$$

4 Calculate:

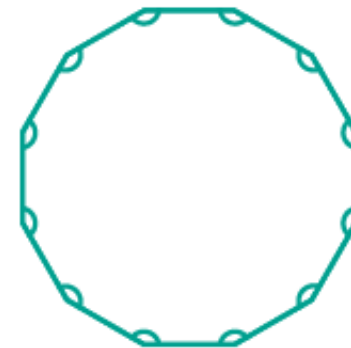
$$\frac{7}{20} + \frac{2}{5} + \frac{1}{10} = \quad \frac{1}{4} - \frac{3}{16} =$$

5 For Comic Relief, a school has three activities. The children pay £1.50 to wear red, there is a bake sale, and the children can pay £2 to throw a wet sponge at a teacher. Altogether, the children raised £528.50. 167 children wore red, and 97 children paid to throw a wet sponge at a teacher. How much did the bake sale make?

6 The area of this triangle is 36cm^2 . The height is half the length of the base of the triangle. What are the dimensions of the triangle?



7 Calculate the angles in this regular dodecagon:



8 Express the answer to this word problem algebraically, using h to represent the number hours Toby is awake in a day, when he wakes up at 7am and goes to sleep at 8pm.

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1
A bag of mini chocolate eggs contains five milk chocolate eggs and three plain chocolate eggs. Genesis would like 12 plain chocolate eggs. How many milk chocolate eggs will she have?

20 milk chocolate eggs

2
 $y = 2x + 1$

$y = 11$

$x = 2$

3
Calculate:

20% of £15 = **£3**

75% of £40 = **£30**

4
Calculate:

$$\frac{2}{5} + \frac{3}{10} = \frac{7}{10}$$

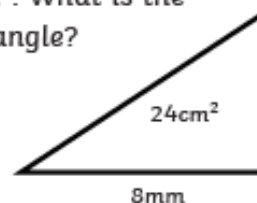
$$\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$$

5
For Comic Relief, a class of children pay £2 each to wear pyjamas. 28 children wear pyjamas. They also raise money by selling cakes. Altogether, the class raise £72.50. How much did selling the cakes raise?

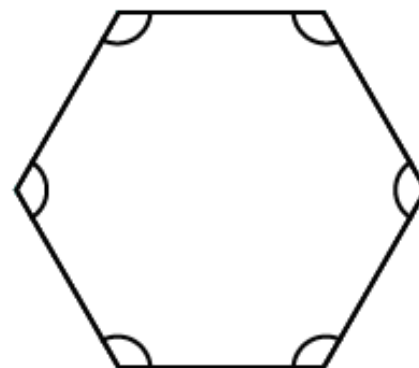
£16.50

6
This right-angled triangle has an area of 24cm^2 . What is the height of the triangle?

Height: **6cm**



7
Calculate the angles in this hexagon:



120°

8
Express the answer to this word problem algebraically, using h to represent the number of hours Nieve is awake in a day, when she sleeps for nine hours.

$24 = h + 9$, $9 = 24 - h$ or $h = 24 - 9$

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1
Bags of mini chocolate eggs contain six milk chocolate eggs, five plain chocolate eggs and three white chocolate eggs. Jake would like 15 plain chocolate eggs. How many milk and white chocolate eggs will he have?

18 milk and 9 white chocolate eggs

2
 $y = 3x + 7$

If $x = 4$, what is y ? **19**

If $y = 31$, what is x ? **8**

3
Calculate:

15% of £46 = **£6.90**

80% of £125 = **£100**

4
Calculate:

$$\frac{1}{4} + \frac{5}{8} = \frac{7}{8} \quad \frac{9}{10} - \frac{3}{5} = \frac{3}{10}$$

5
For Comic Relief, a school have two activities. Children paid £1.50 to not wear uniform. There was also a bake sale that raised £56.25 out of the total £423.75. How many children did not wear school uniform?

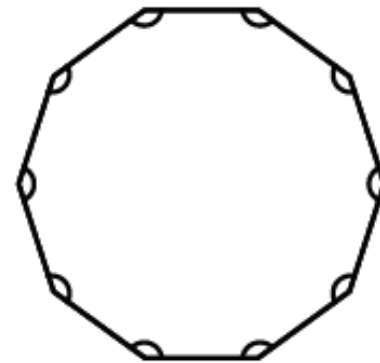
245 children

6
This triangle has an area of 32cm^2 . Calculate the height of the triangle.



Height: **16cm**

7
Calculate the angles in this regular decagon:



144°

8
Express the answer to this word problem algebraically, using h to represent the number hours Miles is asleep in a day, when he spends seven hours at school and is awake for another nine hours.

**$24 = h + 9 + 7$ or $h = 24 - (9 + 7)$
or $h = 24 - 7 - 9$**

other answers possible

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1 Anita buys some packs of chocolate eggs. She has 32 plain chocolate eggs, 20 milk chocolate eggs and 12 milk chocolate eggs. There are 16 eggs in a pack. How many of each egg are in a pack?

8 plain, 5 milk, 3 white chocolate eggs

$$2y = 5x + 9$$

If $x = 3$, what is y ? **12**

If $y = 7$, what is x ? **1**

3 Calculate:

$$13\% \text{ of } £72 = \mathbf{£9.36}$$

$$37.5\% \text{ of } £186 = \mathbf{£69.75}$$

4 Calculate:

$$\frac{7}{20} + \frac{2}{5} + \frac{1}{10} = \frac{4}{5} \quad \frac{1}{4} - \frac{3}{16} = \frac{1}{16}$$

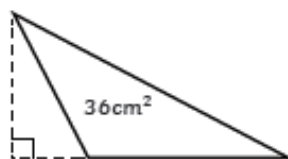
5 For Comic Relief, a school has three activities. The children pay £1.50 to wear red, there is a bake sale, and the children can pay £2 to throw a wet sponge at a teacher. Altogether, the children raised £528.50. 167 children wore red, and 97 children paid to throw a wet sponge at a teacher. How much did the bake sale make?

£84

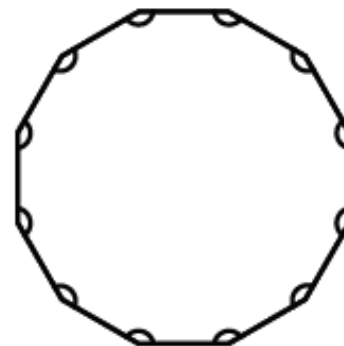
6 The area of this triangle is 36cm^2 . The height is half the length of the base of the triangle. What are the dimensions of the triangle?

base 12cm

height 6cm



7 Calculate the angles in this regular dodecagon:



150°

8 Express the answer to this word problem algebraically, using h to represent the number hours Toby is awake in a day, when he wakes up at 7am and goes to sleep at 8pm.

$$h = 24 - 11$$

$$h = 24 - (7 + 4)$$