# Year 6 Autumn 2 Maths Activity Mat 6

## Section 1

A bag of fruit contains 4 apples and 3 pears. A father buys bags containing 21 apples and pears. How many apples and pears are there?

apples _____ pears _____

## Section 2

$y = x - 1$

If x = 7, what is y?

If y = 3, what is x?

## Section 3

Calculate:

25% of £28 =

10% of £46 =

## Section 4

Calculate:

$\frac{3}{5} + \frac{1}{10} =$

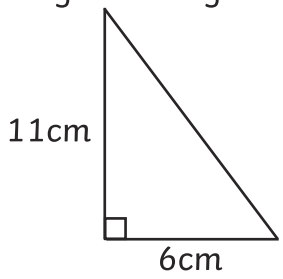
$\frac{1}{2} - \frac{1}{4} =$

## Section 5

A stall sells 24 T-shirts in one day, taking £141. Adult t-shirts are £7 and child T-shirts are £4. How many child T-shirts are sold?

## Section 6

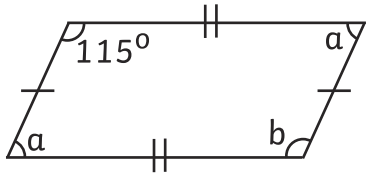
Calculate the area of this right-angled triangle.




(Not to scale.)

## Section 7

Calculate the missing angles in this parallelogram:




(Not to scale.)

## Section 8

Express the answer to this word problem algebraically, using c to represent the number of cards Jack will swap.

'Jack has 19 football cards. He wants to keep 12 of them. He will swap the other cards.'

# Year 6 Autumn 2 Maths Activity Mat 6 **Answers**

## Section 1

A bag of fruit contains 4 apples and 3 pears. A father buys bags containing 21 apples and pears. How many apples and pears are there?

apples **12** pears **9**

## Section 2

$y = x - 1$

If x = 7, what is y? **6**

If y = 3, what is x? **4**

## Section 3

Calculate:

25% of £28 = **£7**

10% of £46 = **£4.60**

## Section 4

Calculate:

$\frac{3}{5} + \frac{1}{10} =$ **$\frac{7}{10}$**

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

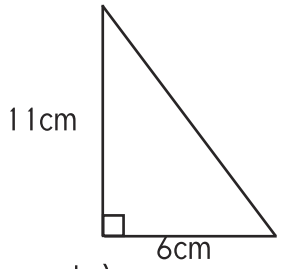
## Section 5

A stall sells 24 T-shirts in one day, taking £141. Adult T-shirts are £7 and child T-shirts are £4. How many child T-shirts are sold?

**9 child T-shirts**

## Section 6

Calculate the area of this right-angled triangle.

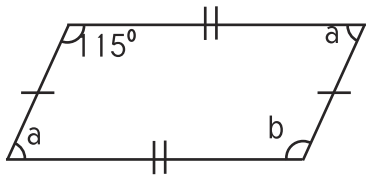



(Not to scale.)

**33cm²**

## Section 7

Calculate the missing angles in this parallelogram:




(Not to scale.)

**65°**

## Section 8

Express the answer to this word problem algebraically, using c to represent the number of cards Jack will swap.

'Jack has 19 football cards. He wants to keep 12 of them. He will swap the other cards.'

**19 = c + 12, 12 = 19 – c or c = 19 – 12**

# Year 6 Autumn 2 Maths Activity Mat 6

## Section 1

A bag of fruit contains 4 apples, 3 pears and 2 oranges. A father buys bags containing 36 apples, pears and oranges. How many apples, pears and oranges are there?

apples _____ pears _____

oranges _____

## Section 2

$y = 2x - 5$

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

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

## Section 3

Calculate:

35% of £54 =

90% of £114 =

## Section 4

Calculate:

$\frac{1}{4} + \frac{3}{8} =$

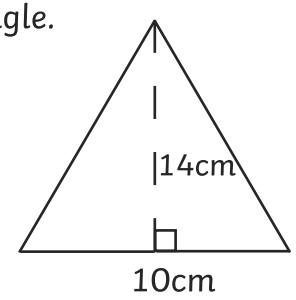
$\frac{7}{10} - \frac{1}{5} =$

## Section 5

A stall sells 43 T-shirts in one day, taking £353. Adult T-shirts are £9 and child T-shirts are £7. How many child T-shirts are sold?

## Section 6

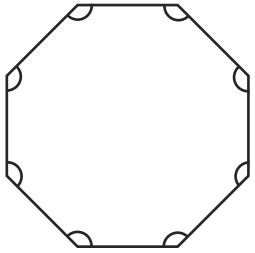
Calculate the area of this triangle.




(Not to scale.)

## Section 7

Calculate the angles in this regular octagon:



## Section 8

Express the answer to this word problem algebraically, using c to represent the number of cards Jack will swap.

'Jack has 56 football cards. He wants to keep 32 of them. He will swap the other cards?'

# Year 6 Autumn 2 Maths Activity Mat 6 **Answers**

## Section 1

A bag of fruit contains 4 apples, 3 pears and 2 oranges. A father buys bags containing 36 apples, pears and oranges. How many apples, pears and oranges are there?

apples **16** pears **12**

oranges **8**

## Section 2

y = 2x - 5

If x = 8, what is y? **11**

If y = 19, what is x? **7**

## Section 3

Calculate:

35% of £54 = **£18.90**

90% of £114 = **£102.60**

## Section 4

Calculate:

$\frac{1}{4} + \frac{3}{8} =$ **$\frac{5}{8}$**

$\frac{7}{10} - \frac{1}{5} =$ **$\frac{5}{10}$ or $\frac{1}{2}$**

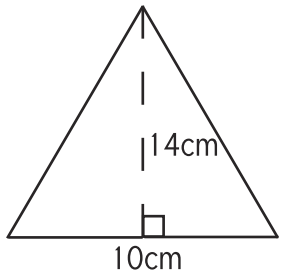
## Section 5

A stall sells 43 T-shirts in one day, taking £353. Adult T-shirts are £9 and child T-shirts are £7. How many child T-shirts are sold?

**17 child T-shirts**

## Section 6

Calculate the area of this triangle.

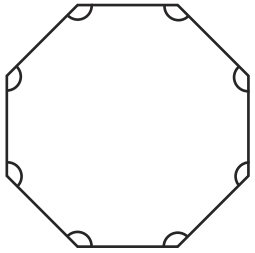



(Not to scale.)

**70cm²**

## Section 7

Calculate the angles in this regular octagon:



**135°**

## Section 8

Express the answer to this word problem algebraically, using c to represent the number of cards Jack will swap.

'Jack has 19 football cards. He wants to keep 12 of them. He will swap the other cards.'

**56 = c + 32, 32 = 56 – c or c = 56 - 32**

# Year 6 Autumn 2 Maths Activity Mat 6

## Section 1

A bag of fruit contains 4 apples, 3 pears and 2 oranges. A father buys enough apples for his family of 4, so they each have 1 apple every day for a week. How many pears and oranges will he have?

pears ____ oranges ____

## Section 2

$3y = 2x - 5$

If x = 1, what is y?

If y = 1, what is x?

## Section 3

Calculate:

17% of £64 =

62.5% of £238 =

## Section 4

Calculate:

$\frac{1}{10} + \frac{1}{5} + \frac{3}{10} =$

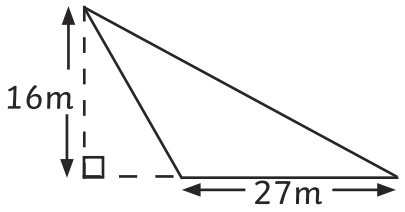
$\frac{3}{4} - \frac{5}{8} =$

## Section 5

A stall sells 98 T-shirts in one week, taking £597.75. Adult T-shirts are £7.25 and child T-shirts are £4.50. How many child T-shirts are sold?

## Section 6

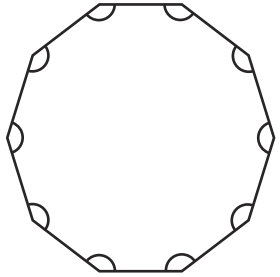
Calculate the area of this triangle.




(Not to scale.)

## Section 7

Calculate the angles in this regular decagon:



(Not to scale.)

## Section 8

Express the answer to this word problem algebraically, using c to represent the number of cards Jack will swap.

'Jack has 165 football cards. He has 6 complete teams of 12 and a further 78 cards he will keep. He will swap the other cards.'

# Year 6 Autumn 2 Maths Activity Mat 6 **Answers**

## Section 1

A bag of fruit contains 4 apples, 3 pears and 2 oranges. A father buys enough apples for his family of 4, so they each have 1 apple every day for a week. How many pears and oranges will he have?

pears **21** oranges **14**

## Section 2

$3y = 2x - 5$

If x = 1, what is y? **-1**

If y = 1, what is x? **4**

## Section 3

Calculate:

17% of £64 = **£10.88**

62.5% of £238 = **£148.75**

## Section 4

Calculate:

$\frac{1}{10} + \frac{1}{5} + \frac{3}{10} =$ **$\frac{3}{5}$**

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

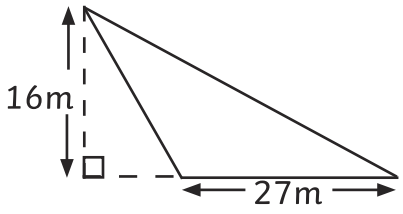
## Section 5

A stall sells 98 T-shirts in one week, taking £597.75. Adult T-shirts are £7.25 and child t-shirts are £4.50. How many child T-shirts are sold?

**41 child T-shirts**

## Section 6

Calculate the area of this triangle.

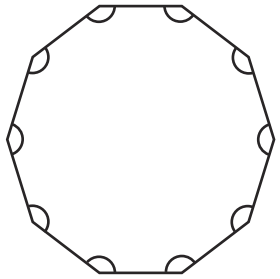



(Not to scale.)

**216cm²**

## Section 7

Calculate the angles in this regular decagon:



**144°**

## Section 8

Express the answer to this word problem algebraically, using c to represent the number of cards Jack will swap.

'Jack has 165 football cards. He has 6 complete teams of 12 and a further 78 cards he will keep. He will swap the other cards.'

**$165 = 12 \times 6 + 78 + c$**