



# Haslingden High School Mathematics Faculty HOMEWORK BOOKLET Year 7 Support



## Instructions.

No calculator is allowed on any part of this homework.  
Remember to show all your working out.



Name: \_\_\_\_\_ Form: \_\_\_\_\_

Maths Teacher: \_\_\_\_\_

Date Given: \_\_\_\_\_ Date to Hand in: \_\_\_\_\_

	Topic	Mark	WWW	IOTI
Monday	Fractions and percentages			
Tuesday	Area and perimeter			
Wednesday	Multiplying and dividing by 10, 100 and 1000			
Thursday	Multiplying and dividing			
Friday	Rounding and estimating			

Total mark:

Effort:

Glue here

Close the gap

## Monday: Fractions and Percentages



### Skills check (12 marks)

- |                       |                                 |
|-----------------------|---------------------------------|
| 1) 50% of 70 .....    | 7) $\frac{1}{4}$ of 32 = .....  |
| 2) 25% of 120 = ..... | 8) $\frac{1}{3}$ of 12 = .....  |
| 3) 75% of 80 = .....  | 9) $\frac{1}{5}$ of 30 = .....  |
| 4) 10% of 80 = .....  | 10) $\frac{1}{7}$ of 42 = ..... |
| 5) 20% of 80 = .....  | 11) $\frac{2}{3}$ of 30 = ..... |
| 6) 15% of 200 = ..... | 12) $\frac{4}{5}$ of 25 = ..... |

### Challenge (4 marks)

Joanne has 300 sweets.

She gives  $\frac{1}{2}$  of the sweets to Erin.

She gives \_\_\_ sweets to Erin and she has \_\_\_ sweets left.

Joanne gives  $\frac{1}{3}$  of the remaining sweets to William.

She gives \_\_\_ sweets to William.

How many sweets does Joanne have left?

She has \_\_\_ sweets left.

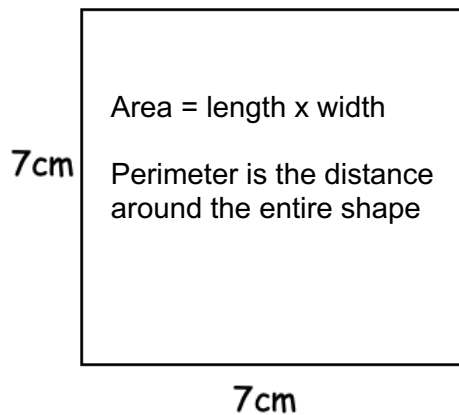
Score /16
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## Tuesday: Perimeter and Area

### Skills check (10 marks)

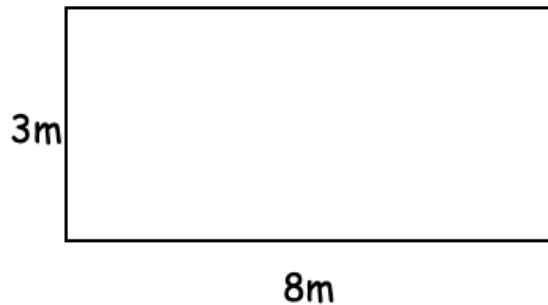
1. Find the perimeter and area of each shape. Don't forget units!

a)



Area =

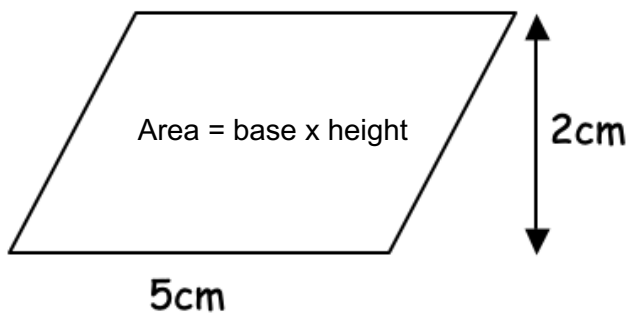
Perimeter =



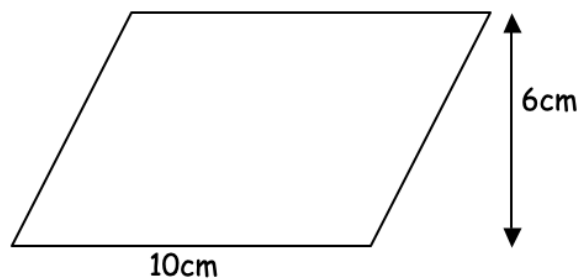
Area =

Perimeter =

b)

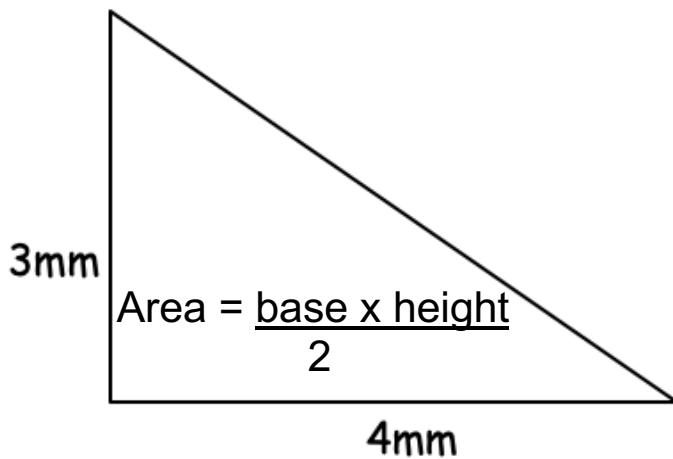


Area =

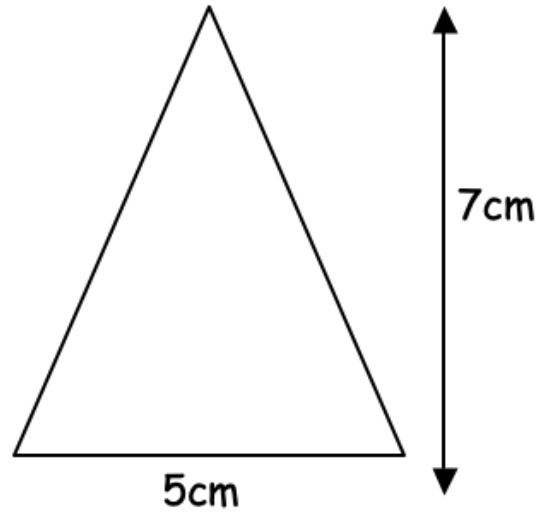


Area =

2. Find the area of each shape. Don't forget units!



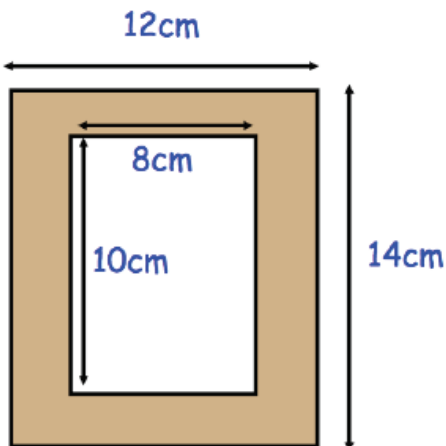
Area =



Area =

Challenge (3 marks)

Shown below is a wooden picture frame.



Work out the shaded area.

Step 1: find the area of the large rectangle

\_\_\_\_\_ cm<sup>2</sup>

Step 2: find the area of the small rectangle

\_\_\_\_\_ cm<sup>2</sup>

Step 3: large – small

\_\_\_\_\_ cm<sup>2</sup>

Score  
/11

## Wednesday: Multiplying/Dividing by 10, 100, 1000



### Skills check (12 marks)

1)  $5 \times 100 =$  .....

7)  $140 \div 10 =$  .....

2)  $980 \times 100 =$  .....

8)  $2600 \div 100 =$  .....

3)  $160 \times 10 =$  .....

9)  $60500 \div 100 =$  .....

4)  $1.7 \times 10 =$  .....

10)  $912 \div 10 =$  .....

5)  $91.3 \times 100 =$  .....

11)  $45.01 \div 10 =$  .....

6)  $2.06 \times 100 =$  .....

12)  $71.3 \div 10 =$  .....

### Challenge (5 marks)

$$85 \times \boxed{\phantom{00}} = 8500$$

$$\boxed{\phantom{00}} \times 1000 = 400$$

$$\boxed{\phantom{00}} \times 10 = 457.1$$

$$1900 \div \boxed{\phantom{00}} = 19$$

$$\boxed{\phantom{00}} \div 10 = 0.05$$

Score /17
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## Thursday: Multiplying and Dividing



### Skills check (5 marks)

Use the grid or column method to answer the following questions.

No working = no marks

a)  $12 \times 42$

x	10	2
40		
2		

b)  $28 \times 63$

x	20	8
60		
3		

c)  $139 \times 38$

x	100	30	9
30			
8			

Use the bus stop method to answer the following questions.

No working = no marks

a)  $608 \div 8$

$$8 \overline{) 608}$$

b)  $6153 \div 7$

$$7 \overline{) 6153}$$

### Challenge (2 marks)

Timothy saves £34 a week.

Calculate how much money Timothy will save in one year

Hint: There are 52 weeks in a year

Score /7
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## Friday - Rounding



### Skills check (12 marks)

1. Round the following numbers to the nearest:

a) 10

b) 100

c) 1000

a) 1484      .....      .....      .....

b) 14794      .....      .....      .....

2. Round the following numbers to the nearest:

a) 1dp

b) 2dp

a) 6.245      .....      .....

b) 24.2157      .....      .....

c) 0.0692      .....      .....

### Challenge (2 marks)

Bob wants to do the following calculation:       $23.2 \times 31.4$

He estimates the answer by rounding each number to the nearest 10.  
Does this give him an overestimate or underestimate? Explain your answer.

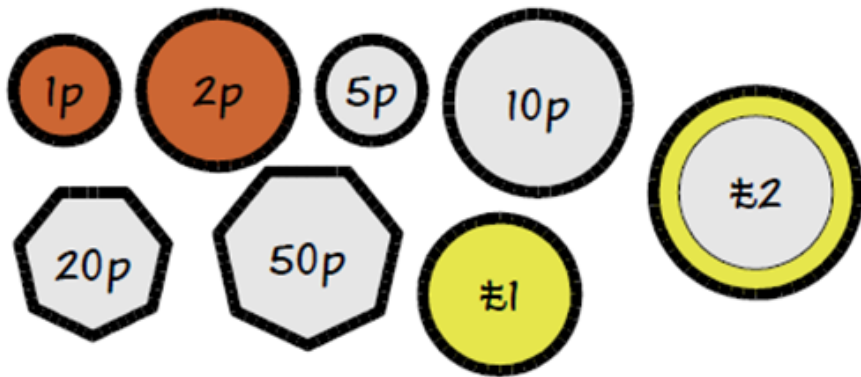
Score /14
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## Weekend Activity - Coins Problem

### Skills check (4 marks)

Here are the coins used in England.



1) Bob has 56p in his pocket. Write down the coins this could be.

2) Stephen buys a bar of chocolate and a drink for £1.31. He pays with the correct money. Write down which coins he could have used.

3) Jade buys a new pencil case costing £1.75. She pays with a £2 coin.

a) How much change does Jade get?

b) Which coins could she be given as her change?

Score /4
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