

Revision Race

GCSE Maths

Grades 1–3



How to use

Traditional Quiz

Get students into pairs. Show each question on the board for a couple of minutes.

Students should work out the answer and record it on a sheet of paper.

At the end of the quiz, groups can either mark their own answers or you can get them to swap with another group if you don't trust them! The group with the most correct answers wins.

Revision Race

Get students into small groups. Print a copy of each question for each group – you could reduce them to 4 questions on one sheet of A4. Each group starts with question 1 and once they have answered it they bring it up to you for checking. If correct, they are awarded 10 points and you give them question 2. If they are incorrect they can try the question again, but if they get it wrong several times they can pass but will lose 1 point for doing so! The lesson continues like this.

You can record their points on the board at the front so they can see who is leading.

The winning group is the team at the end with the most points.

Treasure Hunt

Print one copy of each question. Display the questions around the classroom or corridor.

Students work in pairs and have to hunt down all 15 answers. The winning pair is the first to return with all 15 answers correct.

Support

- Let weaker classes use a calculator on some of the harder questions.
- Use mixed ability pairs to support weaker students.





Key Cards

GCSE Maths

“I rarely promote products,
but this ... is excellent”

Craig Barton (@mrbartonmaths)

- Easy-to-learn flash cards for all of the facts, formulas and basic processes needed for the 9–1 GCSE Maths specification.
- Uses the proven method of spaced repetition for effective learning.
- AQA, Edexcel and OCR covered at higher and foundation levels.



keycardsrevision.co.uk

Question 1

Complete the bank statement.

Date	Description	Credit	Debit	Balance
	Starting Balance			£142.20
05/04/17	Wages	£650.00	
07/04/17	Rent		£301.00
08/04/17	Cash		£516.20



Question 2

Anne makes cakes for a bake sale.

It costs her 80p to make each cake.

She sells each cake for £3.10.

If she makes and sells 24 cakes, how much profit will she make?



Question 3

Sam uses 160 units of gas in January.

Each unit costs 18p.

Sam also has to pay a standing charge of £32 per month.

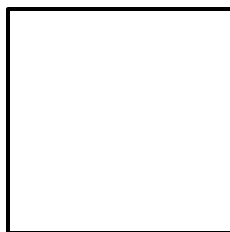
In January he gets 10% off his total gas bill.

How much is Sam's gas bill for January?

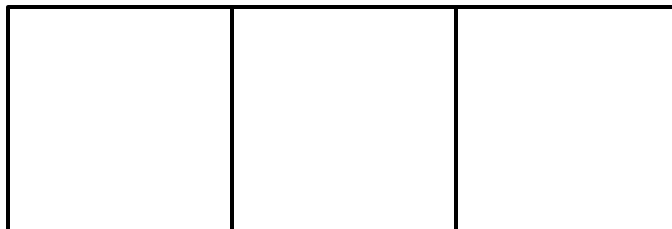


Diagram
not drawn
accurately

A square has a perimeter of 20 cm.



Three squares are put together to form a rectangle:



Calculate the area of the rectangle.
State the units of your answer.



Complete the two-way table.

The first entry has been completed for you.

	Multiple of 3	Even Number	Odd Number
Prime Number	3		
Factor of 12			
Cube Number			



Question 6

Complete the table.

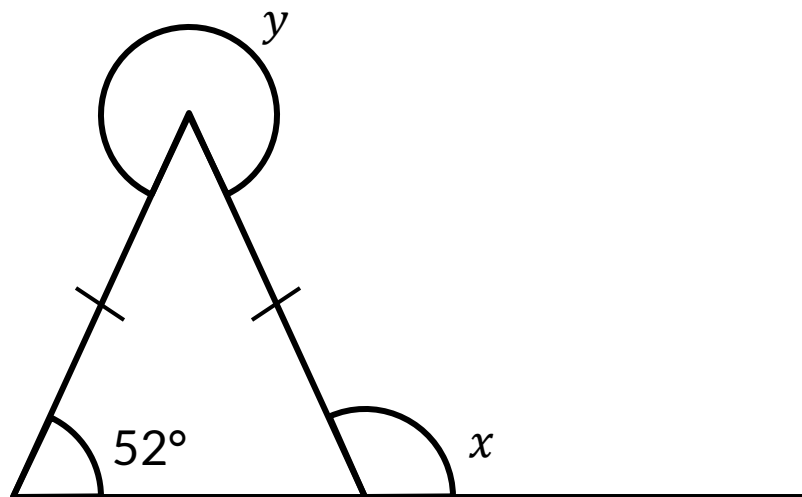
The first entry has been completed for you.

Fraction	Decimal	Percentage
$\frac{1}{4}$	0.25	25%
		40%
	0.3	
$\frac{7}{10}$		
$\frac{3}{8}$		



Diagram
not drawn
accurately

Find the missing angles x and y .



Collect the terms:

a) $5a + 7a$

b) $8a - 2b + 2a + 9b$

Expand:

a) $5(x - 3)$

b) $3x(x + 5)$



Question 9

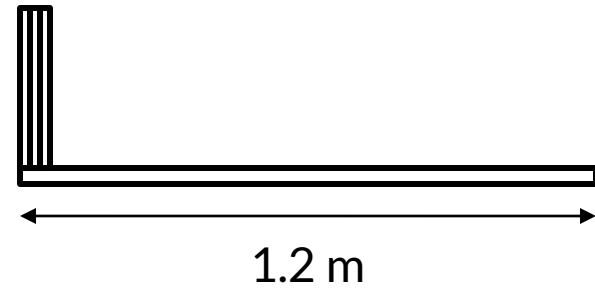
A shelf is 1.2 m long.

A book is 15 mm thick.

Can you fit 80 of the books on the shelf?

You **must** show your working.

Diagram
not drawn
accurately



Here are the daily temperatures (in °C) taken at 1pm every day for a week:

-3, 0, 2, 5, 6, 6, 12

- a) What is the mode temperature?
- b) What is the difference between the mode temperature and the **mean** temperature?
- c) What is the range of the temperatures?



The following formula is used to calculate the cooking time t in minutes for a turkey weighing w kilograms:

$$t = 35w + 50$$

a) How long should you cook a turkey that weighs 4 kg?
Give your answer in minutes.

b) A turkey takes 2 hours to cook.

How many kilograms does it weigh?



Here is part of a TV guide.

Programme	Start time	End time
Football	13.00	15.30
News	15.30	15.50
Lottery	15.50	16.35

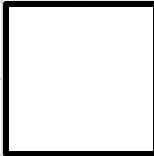
- a) How long is the lottery on TV for?
Give your answer in minutes.
- b) Ben watches all of the football and half of the news.

How long does Ben watch TV for?
Give your answer in hours and minutes.



Complete the two-way table by drawing a **different** quadrilateral in each cell.

The first one has been completed for you.

	Two pairs of parallel sides	Two lines of symmetry
Four equal length sides		
Rotational symmetry of order 2		



Solve:

a) $5x = 40$

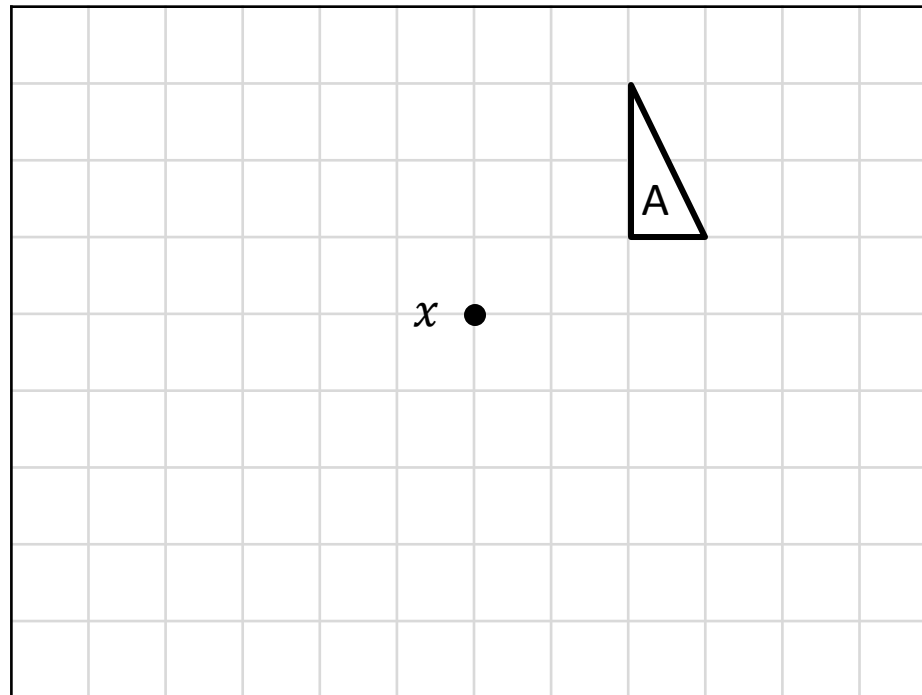
b) $x - 17 = 20$

c) $3x + 2 = 23$

d) $5(x + 2) = 30$



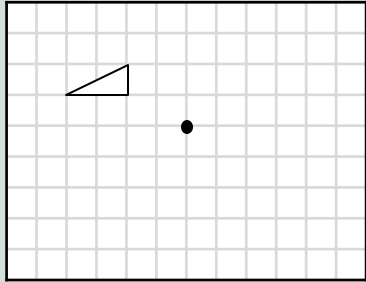
Rotate shape A 270° clockwise around the point x.



Answers



	Answer
1	Balance on 05/04/17 = £792.20 Balance on 07/04/17 = £491.20 Credit on 08/04/17 = £25.00
2	£55.20
3	£54.72
4	75 cm ² (squares have a side length of 5 cm)
5	Multiple possible solutions.
6	From top to bottom and left to right: $\frac{2}{5}$ and 0.4 $\frac{3}{10}$ and 30% 0.7 and 70% 0.375 and 37.5%
7	$x = 128^\circ$ $y = 284^\circ$
8	Collect the terms answers: a) 12a b) $10a + 7b$ Expand: a) $5x - 15$ b) $3x^2 + 15x$

	Answer
9	$120 \div 1.5 = 80$ 80 books will fit on the shelf.
10	a) 6 b) 2 (the mean is 4) c) 15
11	a) 190 minutes b) 2 kg
12	a) 45 minutes b) 2 hours 40 minutes
13	From top to bottom and left to right: Rhombus Parallelogram Rectangle
14	a) 8 b) 37 c) 7 d) 4
15	



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