

GCSE Maths - Foundation grade C

Five questions a day

Set 1

No calculators!

Instructions

Complete one set of questions each day.

Write your answers in the boxes and remember to show your working.

Calculators are NOT allowed!

*Once the answers have been
marked, record your progress on
page 8*

Day 1 Multiplying decimals

1. Work out 3×5.4

2. Calculate 2.6×1.2

3. Evaluate 1.25×7.3

4. Susan buys 11 metres of garden fencing at £3.25 per metre.
How much does she pay?

5. Pen costs 18p each and pencils costs 15p each. John buys eight pens and four pencils.
How much does he pay altogether, give your answer in pounds and pence?

Day 2 Dividing decimals

1. Calculate $8 \div 0.4$

2. Evaluate $6.95 \div 0.05$

3. Work out $69.5 \div 0.5$

4. Henry is putting up a fence in his garden. The fence panels are 0.7m long. The total length of the fence is 8.4 metres.
How many panels does he need to buy?

5. A shelf is 1.5 metres long. Books of thickness 30cm are put on the shelf.
How many of these books will fit on the shelf?

Day 3 Factors, primes, squares and square roots

1. List all the factors of:

a) 12

c) 48

b) 16

d) 66

2. Write out the first 10 prime numbers.

3. Find the value of:

a) 6^2

c) 30^2

b) $\sqrt{64}$

d) $\sqrt{144}$

4. List all the factors of 20

5. List all the ways of packing 20 cartons into a rectangular box.

Day 4 Drawing angles

1. Draw an angle of 50° .
What type of angle is this?

2. Draw an angle of 130° .
What type of angle is this?

3. Draw an angle of 90° .
On a sketch, how would you identify this type of angle?

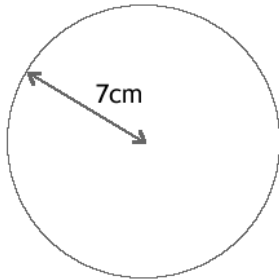
4. Draw an angle of 340° .
What type of angle is this?

5. Draw a triangle with a 6cm base and two angles of 70° and 50° .

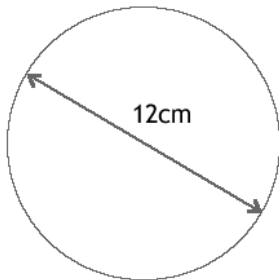
Day 5 Areas of circles

1. What is the formula for finding the area of a circle?

2. Find the area of this circle.



3. Find the area of the circle.



4. Find the area of a circle with a radius of 3.5 cm, stating the units.

5. Find the area of a circle with diameter 5m, stating the units.

Progress

Topic	Score	Traffic light	Comment
Multiplying decimals			
Dividing decimals			
Factors, primes, squares and square roots			
Drawing angles			
Areas of circles			

Solutions

Day 1

1. 16.2
2. 3.12
3. 9.125
4. 35.75
5. £2.04

Day 2

1. 20
2. 139
3. 139
4. 12
5. 5

Day 3

1. a. 1, 2, 3, 4, 6, 12
b. 1, 2, 4, 8, 16
c. 1, 2, 3, 4, 6, 8, 12, 16, 24, 48
d. 1, 2, 3, 6, 11, 22, 33, 66
2. 2, 3, 5, 7, 11, 13, 17, 19, 23, 29
3. a. 36
b. 8
c. 900
d. 12
4. 1, 2, 4, 5, 10, 20
5. 1x20, 2x10, 4x5

Day 4

1. Acute
2. Obtuse
3. Square box
4. Reflex
5. Diagram

Day 5

1. πr^2
2. 153.9cm²
3. 452.4cm²
4. 38.5cm²
5. 78.5cm²