

National curriculum tests

Key Stage 2

Mathematics

Practice Paper 2-1: reasoning

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
School name						
DfE number						

Time: 40 minutes.

No calculators allowed.

35 marks



1

These numbers are not in their correct order.

365

403

341

455

399

Which number is closest to 400

1 mark

Which number is furthest from 400

1 mark

Ref: 3N2a

2

Put these numbers in order with the highest at the top.

199880

199090

189890

198990

199890

1 mark

Ref: 5N2

3

Write the three missing digits to make this **addition**

$$\begin{array}{r} 16\Box \\ + 2\Box 3 \\ \hline \Box 05 \end{array}$$



2 marks

Ref: 3C2

4

This table shows house prices in different streets.

Street	House price
North Street	£126,875
South Street	£199,100
West Street	£113,945
East Street	£96,750

What is the total price of the houses in North Street and South Street?

1 mark

What is difference in price between the houses in West Street and East Street?

1 mark

Ref: 4S1/5S1

5

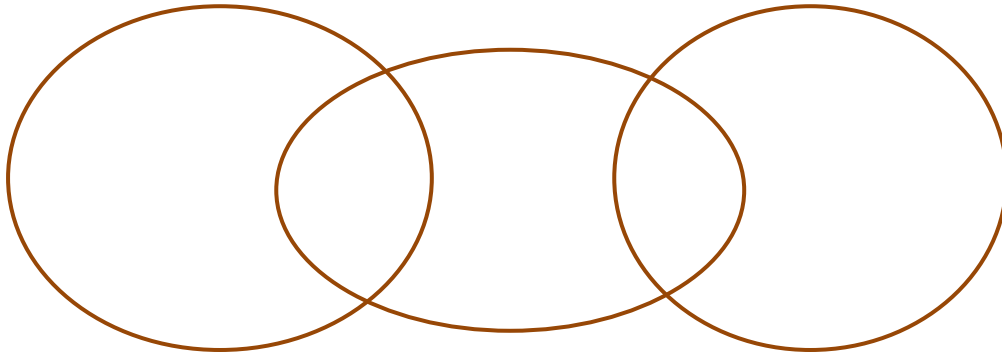
Write each number in its correct place on the diagram.

21 23 25 27

**Square
numbers**

Odd numbers

**Prime
numbers**



2 marks

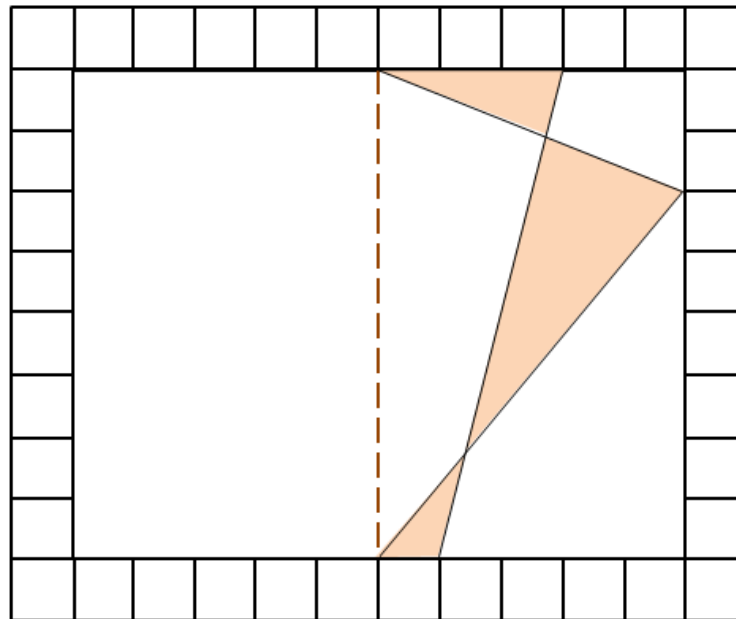
Ref: 5C5c

6

This diagram shows a shaded shape inside a border of squares.

Draw the reflection of the shape in the mirror line.

Use a ruler.



mirror line

Ref: 4G2c



1 mark

7

Write the two missing digits to make these equivalent fractions correct.

$$\frac{\square}{3} = \frac{8}{12} = \frac{6}{\square}$$



2 marks

Ref: 6F2

8

Tick (✓) the two numbers which subtract to make 0.34.

0.83

0.79

0.59

0.45



1 mark

Ref: 5F10

10

Which fraction is different (✓)

$$\frac{1}{4}$$

$$\frac{2}{8}$$

$$\frac{3}{12}$$

$$\frac{4}{15}$$

$$\frac{5}{20}$$

Match the top fraction with a line

$$\frac{2}{10}$$

$$\frac{1}{4}$$

$$\frac{3}{12}$$

$$\frac{4}{6}$$

$$\frac{1}{5}$$



1 mark



1 mark

Ref: 3F2

12 $p = 31$

What is $2p + 7$?

1 mark

$$2s + 5 = 87$$

Work out the value of s ?

$s =$

1 mark

Ref: 6A2

14

Write all the common multiples of 2 and 9 that are **less than 40**



1 mark

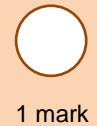
Ref: 6C5

- 16** The world's highest mountain is 885,000 cm
A smaller mountain is 25,000 cm less



How high is the smaller mountain

cm



1 mark

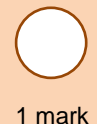
The distance to the moon is 384, million metres



Not to
scale



Write the number that is one hundred thousand less
than 384 million

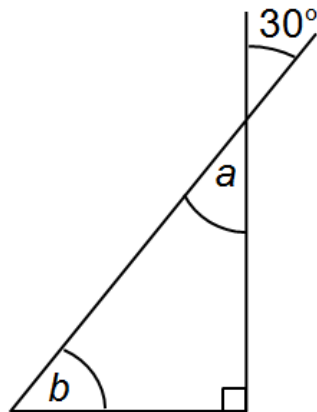


1 mark

Ref: 6N2

17

Calculate the size of angles a and b in this diagram



$a =$

$b =$



1 mark



1 mark

Ref: 6G4b

18

Write the missing number

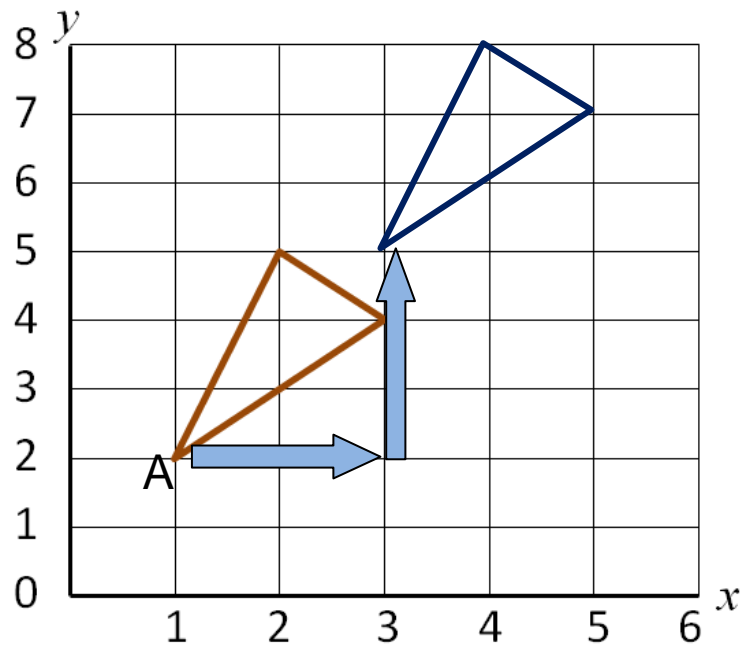
$$\square \div 20 = 2.5$$



1 mark

Ref: 6C8

20 Translate this shape 3 units up and 2 units right



What are the co-ordinates of A *after* the translation?

1 mark

Ref: 6P2