Spring Assessment



Mathematics

Core: Calculator allowed Time allowed: 45 minutes

First name				
Middle name				
Last name				
Date of birth	Day	Month	Year	
Teacher		 <u>.</u>		

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42 = 15q - 21







Write down the size of the angle marked x.

Give a reason for your answer.

0



Here is a cuboid.



On the grid, draw the plan view and side elevation of the cuboid.



2 marks



4

2 marks

Find the lowest common multiple of 24 and 64

2 marks

6

Annie scored 29 out of 35 marks in a test.

What percentage of the test did Annie get correct?

Give your answer to 1 decimal place.







2 marks

Describe fully the single transformation that maps shape B onto shape A.





2 marks D В

2m - 3

С



8

Line segments AB and CD are straight.

Work out the size of angle BCD.

А

8m + 5





Shade the locus of points that are less than 5 cm from A and less than 3 cm from B.

Β

Х



3 marks



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Mr Khan wants to hire a carpet cleaning machine for 4 days.

The table shows the cost of hiring a machine from two different companies.

Company	First day's hire	Additional day's hire	Delivery fee
Carpet Co	£25.67	£18.99	Nil
Clean Carpets	£19.23	£19.23	£10.99

Which company should Mr Khan choose if he wants to pay the least amount of money?

Show workings to support your answer.

3 marks



11

Here is a solid cylinder.



Work out the volume of the cylinder.

Give units with your answer.





a =

2 marks

14

In a sale, the normal price of a bicycle is reduced by 35%.

The sale price of the bicycle is £585

Work out the normal price of the bicycle.







AC = 145 m

BC = 17 m

Work out the perimeter of triangle ABC.



3 marks



15