RISING STARS ASSESSMENT

Reasoning
Year 5 Test

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1. Complete these number sentences.

$19.7 = 15 + \square + 0.2$

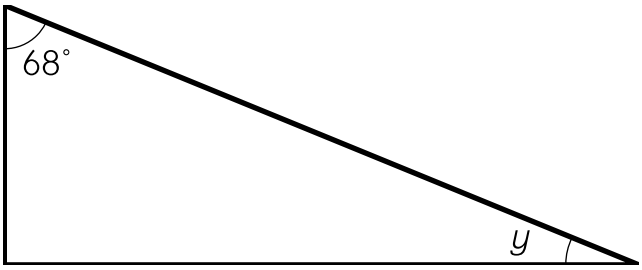
1 mark

2. Write the missing number.

70 ÷ ..... = 3.5

1 mark

3. Find the missing angles in these triangles.



$y =$ ☐ °

1 mark

4. Complete each sentence using a number **from the list below**.

120 240 600 1,440 3,600 6,000

There are ..... seconds in an hour.

1 mark

There are ..... minutes in a day.

1 mark

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5.

Here is part of the bus timetable from Riverdale to Mott Haven.

Riverdale	10:02	10:12	10:31	10:48
Kingsbridge	10:11	10:21	10:38	10:55
Fordham	10:28	10:38	10:54	11:11
Tremont	10:36	10:44	11:00	11:17
Mott Haven	10:53	11:01	11:17	11:34

How many minutes does it take the 10:31 bus from Riverdale to reach Mott Haven?

1 mark

minutes

Mr Evans is at Fordham at 10:30

What is the **earliest** time he can reach Tremont on the bus?

.....

1 mark

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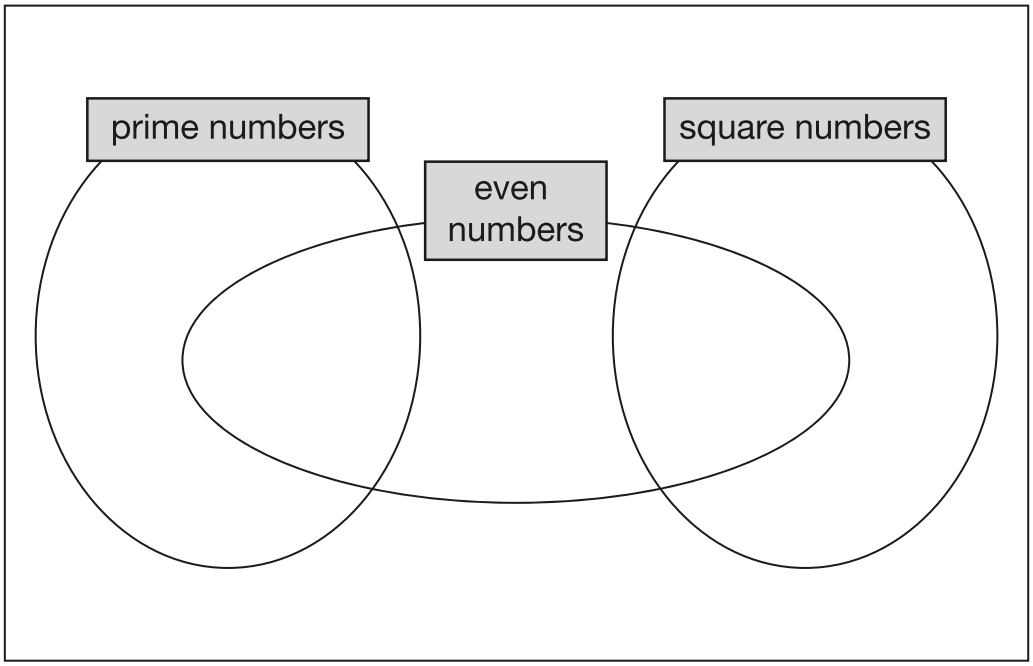
6. Write each number in its correct place on the diagram.

16 17 18 19



2 marks

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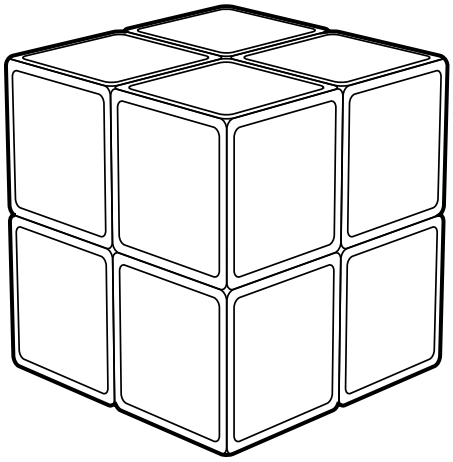
7.



Javid makes this shape from small cubes.

He takes three cubes away.

How many cubes are left?

cubes

1 mark

8. A kettle can fill 8 mugs.

Each mug holds 600 millilitres.

How many litres does the kettle hold?

litres

1 mark

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9. Sam had:

4 rides on the dodgems

2 rides on the big wheel

3 rides on the roller coaster.

Fairground rides	
Dodgems	£1.85
Big wheel	£2.35
Roller coaster	£2.90

How much did he pay altogether?

£

2 marks

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10. Lola buys two muesli bars and a quarter kilogram of nuts.
How much change does she get from £5?

Muesli bar	55p
1 kg of nuts	£2.20

£

1 mark

/14

Total for this test

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Answers and mark schemes

Test	Mark	NC Domain	PF Code	Extra information
1. 4.5	1	Number	4.3.b.3	
NAHT KPI Statement:				
Progression Framework Statement: 4.3.b.3 Recognise and write decimal equivalents of any number of tenths or hundredths and 1/4; 1/2; 3/4				
2. 20	1	Number	5.2.b.3	
NAHT KPI Statement:				
Progression Framework Statement: 5.2.b.3 Multiply and divide numbers mentally drawing upon known facts				
3. 22	1	Geometry	6.3.3	
NAHT KPI Statement: Compares and classifies geometric shapes based on their properties and sizes and finds unknown angles in any triangles, quadrilaterals and regular polygons				
Progression Framework Statement: 6.3.3 Find unknown angles and lengths in triangles, quadrilaterals, and regular polygons				
4. a) 3,600	1	Measurement	5.3.1	Misreads and transcription errors are **not** allowed.
NAHT KPI Statement:				
Progression Framework Statement: 5.3.1 Solve problems involving converting between units of time				
4. b) 1,440	1	Measurement	5.3.1	
NAHT KPI Statement:				
Progression Framework Statement: 5.3.1 Solve problems involving converting between units of time				
5. a) 46	1	Statistics	5.3.2	The answer is a time interval.
NAHT KPI Statement:				
Progression Framework Statement: 5.3.2 Solve problems using information in tables, including timetables				

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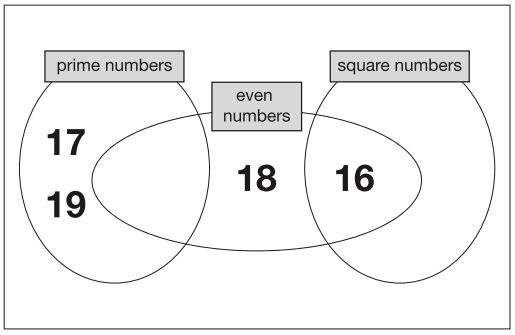
Test	Mark	NC Domain	PF Code	Extra information
5. b) 10:44	1	Statistics	5.3.2	The answer is a specific time.
NAHT KPI Statement:				
Progression Framework Statement: 5.3.2 Solve problems using information in tables, including timetables				
6. Award **TWO** marks for all four numbers placed correctly as shown:  If the answer is incorrect, award **ONE** mark for three numbers placed correctly.	2	Number	5.2.d.3	Accept alternative unambiguous indications, e.g. lines drawn from the numbers to the appropriate regions of the diagram. **Do not** accept numbers written in more than one region.
NAHT KPI Statement:				
Progression Framework Statement: 5.2.d.3 Recall prime numbers up to 19				
7. 5	1	Measurement	5.2.5	
NAHT KPI Statement:				
Progression Framework Statement: 5.2.5 Estimate the area of irregular shapes and volume and capacity				
8. 4.8	1	Measurement	5.3.4	Do not accept 4,800 unless litres is crossed out and replaced with ml.
NAHT KPI Statement:				
Progression Framework Statement: 5.3.4 Solve measurement problems using all four operations and decimal notation, including scaling and conversions				

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Test	Mark	NC Domain	PF Code	Extra information
9. 20.80	2	Measurement	5.3.3	Award 2 marks for the correct answer. If the answer is incorrect, award 1 mark for a correct method, e.g. (1.85 × 4) + (2.35 × 2) + (2.90 × 3) = error
NAHT KPI Statement:				
Progression Framework Statement: 5.3.3 Solve problems involving money, using the four operations				
10. 3.35	1	Measurement	5.3.3	Do not accept (£)3.35p
NAHT KPI Statement:				
Progression Framework Statement: 5.3.3 Solve problems involving money, using the four operations				

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