Year 9 End of KS3 Assessment Revision List
Foundation: Summer 2026

Paper 1 Topics	Marks	Sparx Code
Rounding integers	1	U480
Converting between fractions, decimals and percentages	1	U888
Understanding, measuring and drawing angles	1	U447
Understanding and ordering decimals	1	U435
Calculating with roots and powers	1	U851
Add & subtract decimals, Use a written method to multiply & divide with decimals	4	U478,U293,U868
Drawing bar charts	4	U363
Angles on a line and about a point	3	U390
Function machines with numbers	3	M175
Function machines with letters, Constructing and solving equations	2	M428,U599
Writing and simplifying ratios	2	U687
Multiplying and dividing with negative numbers	1	U548
Calculating with roots and powers	1	U851
Using the correct order of operations	1	U976
Finding the area and perimeter of simple shapes	4	U993
Writing probabilities as fractions	3	U408
Using a written method to multiply integers	3	U127
Interpreting stem-and-leaf diagrams	4	U909
Solving direct proportion word problems	3	U721
Solving equations with two or more steps	3	U325
Calculating with roots and powers	1	U851
Translation	2	U196
Position-to-term rules for arithmetic sequences	2	U498
Adding and subtracting mixed numbers	2	U793
Multiply with mixed numbers, Convert mixed numbers & improper fractions	1	U224,U692

Paper 2 Topics	Marks	Sparx Code
Reading, converting and calculating with time	1	U902
Using algebraic notation	1	U613
Converting between fractions, decimals and percentages	1	U888
Ordering negative numbers	1	U947
Using appropriate units	2	U497
Constructing and solving equations	3	U599
Substituting into real-life formulae	2	U144
Finding the mode	1	U260
Calculating the range	2	U526
Angles on a line and about a point	2	U390
Angles on a line and about a point	1	U390
Converting between ratios, fractions and percentages	2	U176
Reading, converting and calculating with time	2	U902
Calculating with speed	2	U151
Interpreting frequency tables and two-way tables	3	U981
Simplifying expressions using index laws	1	U662
Solving equations with two or more steps	2	U325
Drawing pie charts	3	U508
Interpreting pie charts	1	U172
Writing probabilities as fractions, decimals and percentages	4	U510
Calculating speed from distance-time graphs	2	U462
Plotting distance-time graphs	1	U403
Finding percentages of amounts	3	U349
Finding the volume and the surface area of cubes and cuboids	3	U786, U929
Reading and drawing inequalities on number lines	3	U509
Prime factor decomposition	2	U739
Finding the HCF and LCM using prime factor decomposition	2	U250

THINKING SCHOOLS ACADEMY TRUST	Full Name:	
	Teacher Name:	

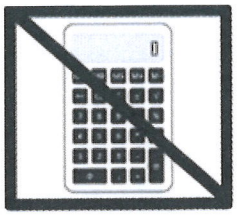
Year 9
End of Key Stage 3 Programme of Study Assessment 2024

PRACTICE PAPER

Paper 1 (Non-Calculator) Foundation Tier

Instructions

- Use black ink or ball point pen
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B)
- **Fill in the boxes** at the top of this page with your name and teacher name
- Answers **all** questions
- Answer the questions in the spaces provided
  - There may be more space than you need
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used**.



Information

- The total mark for this paper is **54 marks**
- The marks for each question are shown in brackets
  - Use this as a guide as to how much time to spend on a question.

1 Write the number 15 675 correct to the nearest thousand.

.....

(Total for Question 1 is 1 mark)

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2 Write 0.7 as a percentage.

.....%

(Total for Question 2 is 1 mark)

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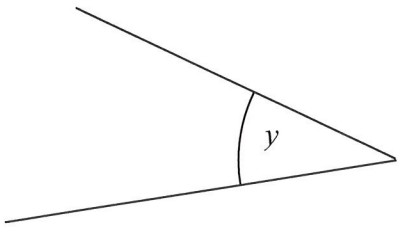
3 Write down the mathematical name for the type of angle marked y.



.....

(Total for Question 3 is 1 mark)

---

4 Write these numbers in order of size.
Start with the smallest number.

0.5 0.52 0.08 0.34 0.3

.....

(Total for Question 4 is 1 mark)

---

5 Find the square root of 81

.....

(Total for Question 5 is 1 mark)

---

6 Josh buys

3 coffees at £2.60 each
2 identical pastries.

Josh pays with a £20 note.
He gets £2.20 change.

How much does Josh pay for each pastry?

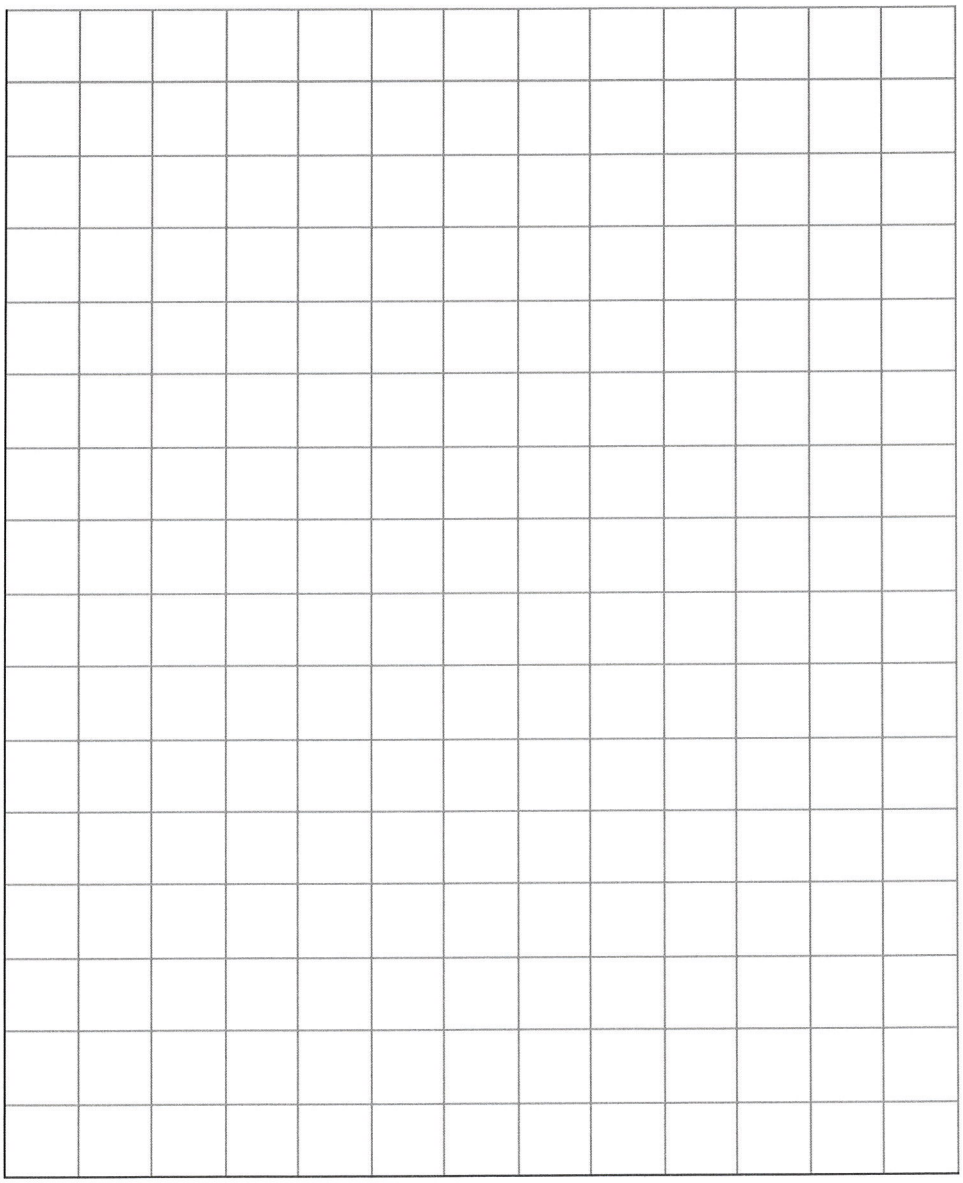
£.....

(Total for Question 6 is 4 marks)

7 The table shows the number of hours that Leona and Petra studied on each of four days last week.

	Friday	Saturday	Sunday	Monday
Leona	8	5	10	11
Petra	13	8	9	9

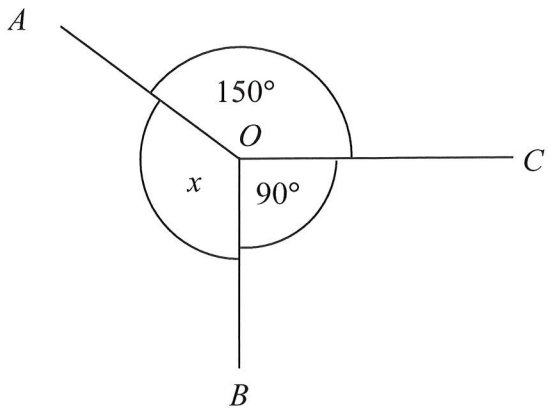
On the grid, draw a suitable diagram or chart for this information.



(Total for Question 7 is 4 marks)

8 OA, OB and OC are three straight lines.

(i) Work out the size of the angle marked x.



.....°

(2)

(ii) Give a reason for your answer.

.....

.....

.....

(1)

(Total for Question 8 is 3 marks)

9 Here is a number machine.

(a) Work out the output when the input is 15

.....

(1)

(b) Work out the input when the output is 48

.....

(2)

(c) Show that there is a number for which the input is the same as the output.

(2)

(Total for Question 9 is 5 marks)

10 There are 12 goats and 42 chickens on a farm.

Write as a ratio the number of goats to the number of chickens.
Give your ratio in its simplest form.

.....

(Total for Question 10 is 2 marks)

---

11 (a) Work out $-20 \div -5$

.....

(1)

(b) Find the value of 3^3

.....

(1)

(c) Write **one** pair of brackets in this calculation so that the answer is correct.

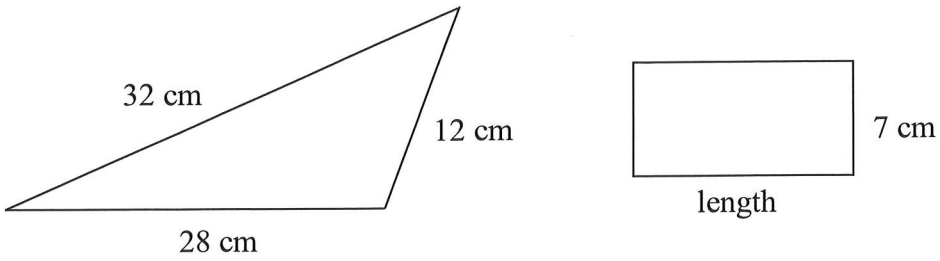
$$30 \div 3 + 2 - 4 = 8$$

(1)

(Total for Question 11 is 3 marks)

---

12 The diagram shows a triangle and a rectangle.



The perimeter of the rectangle is half the perimeter of the triangle.

Work out the length of the rectangle.

..... cm

(Total for Question 12 is 4 marks)

13 There are an equal number of £10 notes and £20 notes in a wallet.

Rose takes at random a note from the wallet.

(a) Write down the probability that Rose takes a note with a value of more than £20

.....

(1)

There are only 10p coins and 20p coins in a bag.
The total value of the coins in the bag is £6

The total value of the 10p coins is the same as the total value of the 20p coins.

Solly takes at random a coin from the bag.

(b) Find the probability that Solly takes a 20p coin.

.....

(2)

(Total for Question 13 is 3 marks)

14 Work out 374×56

.....

(Total for Question 14 is 3 marks)

15 Theresa recorded the ages of 15 people who visited the opera one evening.
She showed her results in a stem and leaf diagram.

3	5	9				
4	3	7	8			
5	1	2	4	5	7	7
6	2	6	7			
7	1					

Key:
3 | 5 represents 35 years

(a) Find the median.

..... years
(1)

(b) Find the range.

..... years
(2)

Theresa also recorded the ages of 15 people who went to the cinema on the same evening.

For the people who visited the cinema, the median age was 32 years.

(c) Compare the ages of the people who went to the opera with the ages of the people who went to the cinema.

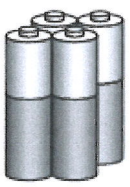
.....

.....

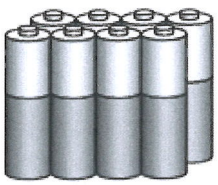
.....
(1)

(Total for Question 15 is 4 marks)

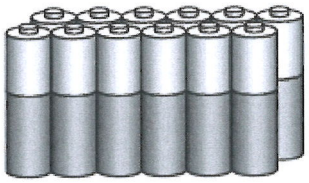
16 Batteries are sold in packs of 4, in packs of 8 and in packs of 12



£2.20



£4.20



£6.20

A pack of 4 batteries costs £2.20
A pack of 8 batteries costs £4.20
A pack of 12 batteries costs £6.20

Which pack gives the best value for money?
You must show how you get your answer.

(Total for Question 16 is 3 marks)

17 Solve $3(2x - 8) = 18$

$x =$ .....

(Total for Question 17 is 3 marks)

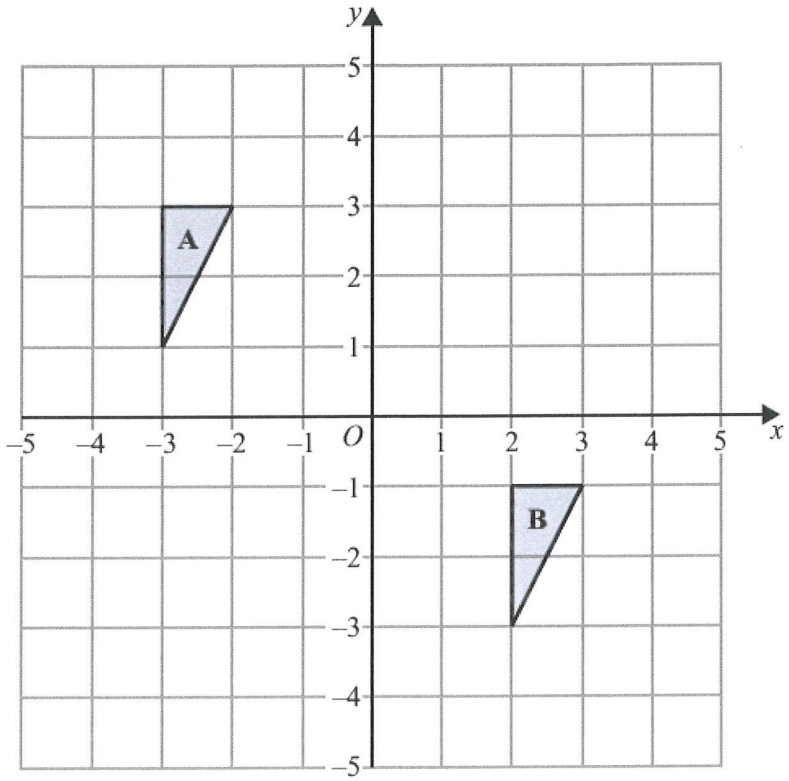
---

18 Write down the value of 2^0

.....

(Total for Question 18 is 1 mark)

19



Describe fully the **single** transformation that maps triangle **B** onto triangle **A**.

.....

.....

.....

(Total for Question 19 is 2 marks)

---

20 Here are the first four terms of an arithmetic sequence.

7 12 17 22

Find an expression, in terms of n, for the nth term of this sequence.

.....

(Total for Question 20 is 2 marks)

---

21 (a) Work out $4\frac{3}{5} - 2\frac{1}{4}$

.....

(2)

Kora was asked to work out $2\frac{2}{5} \times \frac{4}{7}$

Here is her working and her answer.

$$2\frac{2}{5} \times \frac{4}{7} = \frac{12}{5} \times \frac{4}{7}$$

$$= \frac{84}{20}$$

$$= 4\frac{4}{20}$$

Kora's answer is wrong.

(b) What mistake has Kora made?

.....

.....

.....

(1)

(Total for Question 21 is 3 marks)

TOTAL FOR PAPER IS 54 MARKS

THINKING SCHOOLS ACADEMY TRUST	Full Name:	
	Teacher Name:	

Year 9
End of Key Stage 3 Programme of Study Assessment 2026

PRACTICE PAPER
Paper 2 (Calculator)
Foundation Tier

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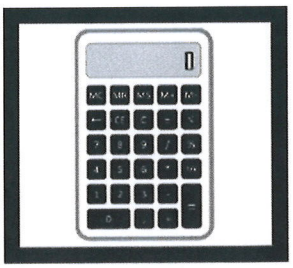

Information

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- The marks for each question are shown in brackets
- Use this as a guide as to how much time to spend on a question.

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Change 4 weeks into days.

..... days

(Total for Question 1 is 1 mark)

---

2 Simplify $3 \times 2m$

.....

(Total for Question 2 is 1 mark)

---

3 Write 0.6 as a percentage.

.....%

(Total for Question 3 is 1 mark)

---

4 Here are some temperatures in °C.

–2 4 –5 8 1

Write the temperatures in order.
Start with the lowest temperature.

.....

(Total for Question 4 is 1 mark)

---

5 Write down a sensible metric unit that could be used to measure

(i) the height of a volcano

.....

(1)

(ii) the weight of a sweet.

.....

(1)

(Total for Question 5 is 2 marks)

---

6 Five numbers add up to 113

One of the numbers is 17
The other four numbers are each the same number.

Work out the value of each of the other four numbers.

.....

(Total for Question 6 is 3 marks)

---

7 Here is a rule to work out the cost of buying a number of fence panels.

$$\text{Cost} = £31 \times \text{number of fence panels}$$

Jen buys a number of fence panels.
The cost is £465

Work out the number of fence panels Jen buys.

.....

(Total for Question 7 is 2 marks)

---

8 Here is a list of numbers.

9 16 8 8 10 6 8 7 13 16

(a) Find the mode.

.....

(1)

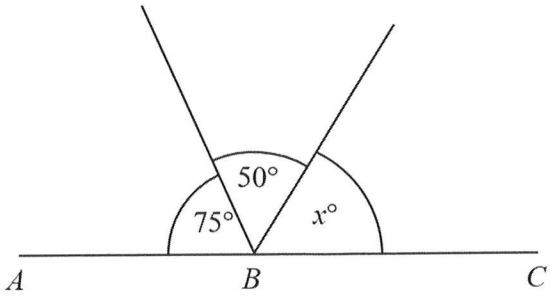
(b) Work out the range.

.....

(2)

(Total for Question 8 is 3 marks)

9



ABC is a straight line.

(i) Work out the value of x.

$x =$ .....

(2)

(ii) Give a reason for your answer.

.....

.....

.....

(1)

(Total for Question 9 is 3 marks)

10 40% of UK waste last year was recycled.

Write down the ratio of

the amount of waste that was recycled last year to the amount of waste that was not recycled last year.

Give your ratio in its simplest form.

.....

(Total for Question 10 is 2 marks)

---

11 Lexi drives her car for 165 minutes.
She stops for a rest.

Lexi then drives for a further 105 minutes.

(a) Show that Lexi drives for less than 5 hours in total.

(2)

A car travels for 3 hours at a steady speed of 55 mph.

(b) Work out the distance the car travels.

..... miles

(2)

(Total for Question 11 is 4 marks)

---

12 A car dealership sells 2-wheel drive cars and 4-wheel drive cars.
Each car runs on petrol, diesel or electricity.

In February the car dealership sold a total of 160 cars.

105 of the cars are 2-wheel drive cars.
57 of the 81 cars that run on petrol are 2-wheel drive cars.
12 cars run on diesel.
47 of the 2-wheel drive cars are electric.

Use this information to complete the two-way table.

	petrol	**diesel**	**electric**	**Total**
2-wheel drive cars				
4-wheel drive cars				
Total				

(Total for Question 12 is 3 marks)

---

13 (a) Simplify $a \times a \times a$

.....

(1)

(b) Solve $4g - 5 = 23$

$g =$ .....

(2)

(Total for Question 13 is 3 marks)

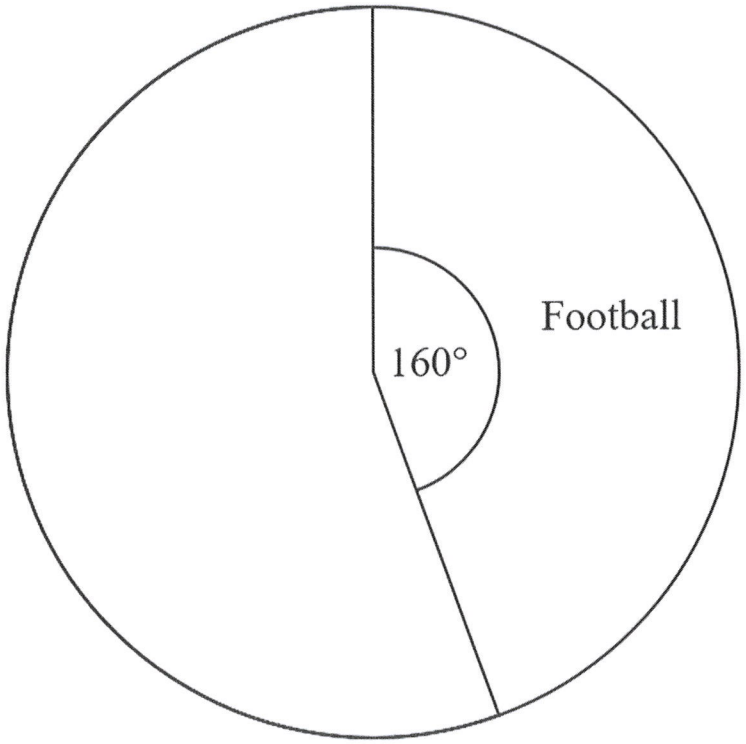
---

14 90 students in Year 11 each choose one sport for a PE lesson.

The table below shows information about their choices.

Sport	Number of students
Football	40
Netball	35
Tennis	15

(a) Complete the accurate pie chart to show this information.



(3)

In another pie chart the number of students in Year 10 playing football is represented by an angle of 180°

Ewan says,

"This means that football was chosen by more students in Year 10 than by students in Year 11"

(b) Is Ewan correct?
Explain why you think this.

.....

.....

.....

(1)

(Total for Question 14 is 4 marks)

15 There are 30 pens in a box.

There are

9 blue pens
13 green pens
8 red pens.

Jack puts 14 more pens in the box.
These pens are either blue pens or red pens.

Jack is going to pick at random one pen from the box.

The probability that this pen will be blue is $\frac{1}{4}$

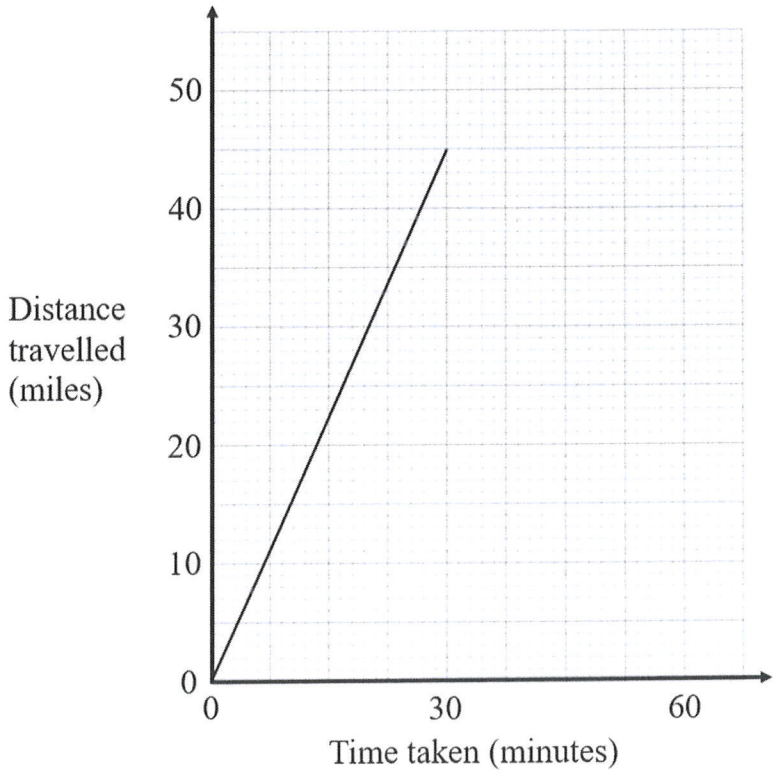
How many more red pens did Jack put in the box?
You must show all your working.

.....

(Total for Question 15 is 4 marks)

16 A train travels from York to Retford.

The travel graph shows information about the train's journey.



(a) Work out the speed of the train.
Give your answer in miles per hour.

..... miles per hour
(2)

The train stays at Retford for 15 minutes.

(b) Show this information on the travel graph.

(1)

(Total for Question 16 is 3 marks)

17 A primary school needs a new roof.
The cost of the roof is £23 000

A grant will pay 65% of this cost.
The school will pay the rest of the cost.

Work out how much the school will pay.

£.....

(Total for Question 17 is 3 marks)

---

18 A cube has a volume of 729 cm^3

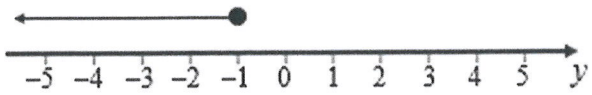
Work out the surface area of the cube.

..... cm^2

(Total for Question 18 is 3 marks)

---

19 Here is an inequality in y shown on a number line.

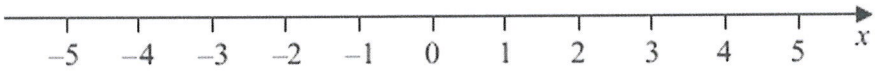


(a) Write down the largest possible integer value for y.

.....

(1)

(b) On the number line below, show the inequality $-3 < x \leqslant 4$



(2)

(Total for Question 19 is 3 marks)

20 (a) Express 140 as a product of its prime factors.

.....

(2)

(b) Find the lowest common multiple (LCM) of 40 and 15

.....

(2)

(Total for Question 20 is 4 marks)

TOTAL FOR PAPER IS 53 MARKS