| Write your name here | | | |
|--|---|-----------------------|------------------|
| Surname | | Other name | 25 |
| Pearson Edexcel International Primary Curriculum | Centre Number | | Candidate Number |
| Mathema Year 6 Achievement Test | tics | | |
| Thursday 1 June 2017 – Mo Time: 1 hour | orning | | Paper Reference |
| You must have: Ruler graduated in centimetres and mirror, pen, HB pencil, eraser. Traci | d millimetres, prot ing paper may be | tractor, con used. | npasses, |

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Calculators are **NOT** allowed.

Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets
 use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.



Turn over 🕨









Answer ALL questions.

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In Section A put a cross in one box 🛛 to indicate your answer. If you change your mind, put a line through the box \boxtimes and then put a cross in another box \boxtimes . Each question in Section A is worth one mark. 1 What is $\frac{1}{3}$ of 54? 18 27 36 162 \times \times \times \times 2 What type of triangle is this? equilateral scalene isosceles right-angled \times \times \times \mathbf{X} Which of the following numbers has factors 1, 2, 3 and 15? 3 20 30 35 45 \mathbf{X} \times X X





5 Here is a pictogram.

It shows the number of children in each class with brown eyes.

| Class 1 | \$\$\$\$\$\$ |
|---------|--------------|
| Class 2 | \$\$\$\$\$ |
| Class 3 | * * * * * |
| Class 4 | \$ \$ \$ |
| Class 5 | |
| Class 6 | **** |

4 = 4 children

How many children in Class 6 have brown eyes?

| 4 | 5 | 17 | 19 |
|-------------|-------------|-------------|--------------|
| \boxtimes | \boxtimes | \boxtimes | \mathbf{X} |



3

| 14 | 35 | 81 | 95 | |
|-----------------------------|-----------------------|-------------|-------------|--|
| | | \boxtimes | | |
| There are 6 balls in a bag: | 1 black, 2 yellow a | nd 3 green. | | |
| Sanja chooses one ball at a | candom. | | | |
| What is the chance of San | ja choosing a black b | ball? | | |
| unlikely | even | likely | certain | |
| | \boxtimes | \boxtimes | \boxtimes | |
| What is 15% of 80? | | | | |
| 4 | 8 | 12 | 68 | |
| | | \boxtimes | | |
| Estimate the size of angle | <i>x</i> . | | | |
| | | | | |
| 65° | 130° | 180° | → 225° | |
| 05 | 150 | 100 | 223 | |

10 Calculate

| | 1. | 3.36 + 4.6 | |
|-------------|-------------|-------------|-------------|
| 8.76 | 13.82 | 17.96 | 59.36 |
| \boxtimes | \boxtimes | \boxtimes | \boxtimes |

11 Peter recorded how many books he read each month for a year.

| Jan | Feb | Mar | Apr | May | Jun |
|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 4 | 5 | 2 | 3 |

| Jul | Aug | Sept | Oct | Nov | Dec |
|-----|-----|------|-----|-----|-----|
| 3 | 6 | 2 | 4 | 2 | 5 |

What is the mode of his data?

| 2 | 3 | 4 | 5 |
|---|-------------|-------------|----------|
| | \boxtimes | \boxtimes | \times |

12 There are 27 children on the school bus.

The ratio of girls to boys is 5:4

How many girls are on the bus?

| 5 | 9 | 12 | 15 |
|-------------|-------------|-------------|--------------|
| \boxtimes | \boxtimes | \boxtimes | \mathbf{X} |





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The graph shows the height of the plant in cm. 16 14 12 10 Height 8 (cm) 6 4 2 0 week1 week2 week3 week4 week5 week6 week7 Weeks How much does the plant grow from week 2 to week 5?

| 3 cm | 7 cm | 10 cm | 14 cm |
|-------------|------|----------|-------------|
| \boxtimes | | \times | \boxtimes |

16 Jason asks 36 children how they get to school and records his results in a table.

| Transport | Frequency |
|-----------|-----------|
| Bus | 3 |
| Car | 9 |
| Cycle | 6 |
| Walk | 18 |



Which pie chart could represent his information?





7



P 4 8 4 3 5 A 0 8 2 0

| | 2 | 4 | 10 | 16 | |
|---------------------|-----------------|--------------------|--------------|-------------------|-----|
| | | | | \boxtimes | |
| 20 Faruq has | this shape. | | | | |
| | | | | | |
| He rotates | the shape 90° | anticlockwise. | | | |
| What is the | e position of F | Faruq's shape now? | | | |
| [| 1 1 1 | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | TOTAL FOR SE | CTION A IS 20 MAI | RKS |
| | | | | | |
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P 4 8 4 3 5 A 0 1 0 2 0

24 Fill in the boxes to make equivalent fractions.



25 Mr Clark's class did a maths test.

He puts the scores on to a bar chart.



435A0

8

Ρ 4

| 26 (a) Measure the length of Line A. Give your answer in millimetres (mm). | | |
|---|---------------------------|-----------|
| Line A | | |
| (b) Measure the length of Line B | Line A = | mm (1) |
| Give your answer in centimetres (cm). | | |
| Line B | _ | |
| | Line B = | cm (1) |
| (c) How much longer is Line A than Line B? | | |
| | | (1) |
| | (Total for Question 26 is | 3 marks) |
| 27 What decimal number is equal to | | |
| 5 units + 3 hur | ndredths | |
| | | |
| | (Total for Question 27 i | s 1 mark) |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| $\begin{array}{c} 12 \\ \hline P 4 8 4 3 5 A \end{array}$ | | |

28 (a) Write this mixed number as an improper fraction.



(b) Write this improper fraction as a mixed number.



(1)

(1)

(Total for Question 28 is 2 marks)

29 Here are two identical hexagons.



Describe the translation of Hexagon T to Hexagon U.

(Total for Question 29 is 2 marks)



30 Ahmed recorded the colour of the first 40 cars that went past him.

He put his information into a table.

| Colour | Number of cars | | |
|--------|-------------------|--|--|
| Black | 12 | | |
| Blue | 9 | | |
| Red | 10 | | |
| Silver | 5 | | |

Use the table to complete a bar chart for Ahmed's information.



31 By rounding each number to the nearest 10, work out an approximate answer to the following.You must show your working.

83.2 ÷ 17.83 =

(Total for Question 31 is 2 marks)

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32 A pentagon has vertices at

(2,2) (3,4) (5,5) (6,3) (4,1)

Use this information to draw the shape on the grid.





Turn over 🕨

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| sections are shaded. | | |
|--|--------------------------------|-----------------------------|
| i) Anya spins the spinner. | | |
| What is the chance of the spi | nner landing on a shaded sect | ion? |
| ii) What is the probability of the | e spinner landing on an unshad | (1) ded section? |
| iii) Place an arrow on this line to unshaded section. | show the probability of the s | (1) pinner landing on an |
| I | I | |
| 0 | | 1 (1) |
| | (Total | (1) |
| | | |

P 4 8 4 3 5 A 0 1 6 2 0

| | (1) | |
|------------|---------------------------|--|
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| | (1) | |
| Duestion 3 | 5 is 2 marks) | |
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| larges | st | |
| Question ? | 36 is 1 mark) | |
| Zursuvii v | 55 15 1 111 41 K j | |
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| | _ | 1 |
| | Question 3 | (1) Puestion 35 is 2 marks) Iargest Question 36 is 1 mark) |

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| 37 | Fatima buys three tubs of | apples. | | | | |
|----|---------------------------|------------------|----------|-----------------|----------------------|---|
| | | Tub A | Tub B | Tub C | | |
| | | | | | | |
| | | 1005 g | 1.2 kg | | | |
| | Fatima bought 2500 g of | apples altogethe | er. | | | |
| | What is the mass of Tub | C? | | | | |
| | Give your answer in kg. | | | | | |
| | | | | | | |
| | | | | | kį | g |
| | | | | (Total for Ques | stion 37 is 2 marks) | _ |
| 38 | Calculate | | | | | |
| | | | 827 × 56 | | | |
| | You must show your wor | king. | | | | |
| | 5 | C | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | (Total for Ques | stion 38 is 2 marks) | |
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| | | | | | | J |



41 Sadiq did five spelling tests.

His marks were

3 7 8 5 6

What was his mean score?

(Total for Question 41 is 1 mark)

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42 Simplify this expression

3(a+2b)+4(2a-b)

(Total for Question 42 is 2 marks)

TOTAL FOR SECTION B IS 40 MARKS TOTAL FOR PAPER IS 60 MARKS

