

## Second Term Test — Practice Paper

### Primary 6 Mathematics

Name: \_\_\_\_\_

Class: \_\_\_\_\_ No.: \_\_\_\_\_

Time allowed: **50 minutes**

Date: \_\_\_\_\_

No. of pages: **5**

#### Section A: 16%

1.  $3.6 \times 0.4 = ?$

2.  $5/6 \div 2/3 = ?$

3. 35% of 240 = ?

4.  $9.6 \div 1.2 = ?$

5.  $7/8 - 1/4 = ?$

6.  $2.5 \times 12 = ?$

7.  $8 \times 3.14 = ?$

8.  $3/4 \times 20 = ?$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

#### Section B: 20%

1. Change  $7/8$  into a percentage.

2. Find the value of 18% of 350.

3. The radius of a circle is 6 cm. Find its circumference. ( $\pi = 3.14$ )

4. The radius of a circle is 5 cm. Find its area. ( $\pi = 3.14$ )

5. A car travels 210 km in 3 hours. Find its average speed.

6. A number is 40% of 85. Find the number.

7. Find the volume of a cuboid 8 cm by 5 cm by 4 cm.

8. Find the total surface area of a cube of side 4 cm.

9. How many factors does 36 have?

10. How many minutes are there from 9:20 to 12:05?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

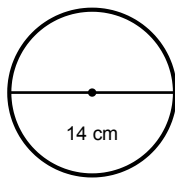
9. \_\_\_\_\_

10. \_\_\_\_\_

**Section C: 30%**

- 1 The diameter of a circle is 14 cm. Find its circumference. ( $\pi = 3.14$ ) (3%)

1 \_\_\_\_\_

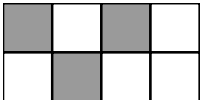


- 2 The radius of a circle is 8 cm. Find its area. ( $\pi = 3.14$ ) (3%)

2 \_\_\_\_\_

- 3 What fraction of the figure is shaded? (3%)

3 \_\_\_\_\_



- 4 There are 45 pupils in a class. 40% of them are boys. How many boys are there? (3%)

4 \_\_\_\_\_

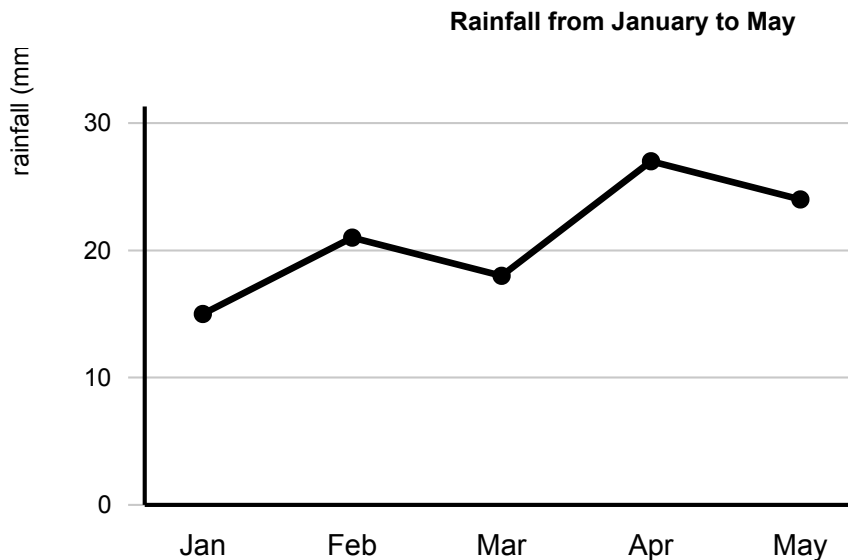
- 5 A tank is 60 cm long, 40 cm wide and 30 cm high. Find its volume in litres. (3%)

5 \_\_\_\_\_

- |   |                                                                             |   |       |
|---|-----------------------------------------------------------------------------|---|-------|
| 6 | How many lines of symmetry does a regular hexagon have? (3%)                | 6 | _____ |
| 7 | A cyclist travels 27 km in 45 minutes. Find his average speed in km/h. (4%) | 7 | _____ |
| 8 | A number is 25% of 160. Find the number. (4%)                               | 8 | _____ |
| 9 | $\frac{5}{6} + \frac{1}{3} - \frac{1}{2} = ?$ (4%)                          | 9 | _____ |

#### Section D: 10%

Study the line graph and answer the questions.



- |    |                                                                |    |       |
|----|----------------------------------------------------------------|----|-------|
| 1. | In which month was the rainfall the highest?                   | 1. | _____ |
| 2. | What was the difference in rainfall between April and January? | 2. | _____ |
| 3. | What was the total rainfall from January to May?               | 3. | _____ |
| 4. | What was the average rainfall per month?                       | 4. | _____ |
| 5. | By how much did the rainfall increase from February to April?  | 5. | _____ |

**Section E: 24% (Show all working steps)**

1. A car travels 260 km in 3.25 hours. Find its average speed. (4%)

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2. A circular flower bed has a radius of 5 m. How many metres of fencing are needed to go round it? ( $\pi = 3.14$ ) (4%)

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3. A water tank is 80 cm long, 50 cm wide and 40 cm high. How many litres can it hold? (4%)

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4. There are 60 pupils in a class. 55% of them are girls. How many girls are there? (4%)

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5. A cuboid is 30 cm long, 20 cm wide and 15 cm high. Find its volume in litres. (4%)

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6. A tank holds 240 L. 45% of it is filled. How many litres of water are there? (4%)

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**End of Paper**

## Second Term Answer Key — Teacher's Copy

### Primary 6 Mathematics

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No. of pages: **5**

#### Section A (16%)

| Q | Answer          | Working                                        |
|---|-----------------|------------------------------------------------|
| 1 | 1.44            | $36 \times 4 \div 100$                         |
| 2 | 1 $\frac{1}{4}$ | $\frac{5}{6} \times \frac{3}{2} = \frac{5}{4}$ |
| 3 | 84              | $240 \times 0.35$                              |
| 4 | 8               | $96 \div 12$                                   |
| 5 | $\frac{5}{8}$   | $\frac{7}{8} - \frac{2}{8}$                    |
| 6 | 30              | $25 \times 12 \div 10$                         |
| 7 | 25.12           | $\pi = 3.14$                                   |
| 8 | 15              | $20 \div 4 \times 3$                           |

#### Section B (20%)

| Q  | Answer               | Note                     |
|----|----------------------|--------------------------|
| 1  | 87.5%                | $7 \div 8 = 0.875$       |
| 2  | 63                   | $350 \times 0.18$        |
| 3  | 37.68 cm             | $2 \times 3.14 \times 6$ |
| 4  | 78.5 cm <sup>2</sup> | $3.14 \times 25$         |
| 5  | 70 km/h              | $210 \div 3$             |
| 6  | 34                   | $85 \times 0.4$          |
| 7  | 160 cm <sup>3</sup>  | $8 \times 5 \times 4$    |
| 8  | 96 cm <sup>2</sup>   | $6 \times 16$            |
| 9  | 9                    | 1,2,3,4,6,9,12,18,36     |
| 10 | 165 minutes          | 2 hours 45 minutes       |

**Section C (30%)**

| Q | Answer                 | Note                                         |
|---|------------------------|----------------------------------------------|
| 1 | 43.96 cm               | $3.14 \times 14$                             |
| 2 | 200.96 cm <sup>2</sup> | $3.14 \times 64$                             |
| 3 | 3/8                    | 3 out of 8 squares                           |
| 4 | 18                     | $45 \times 0.4$                              |
| 5 | 72 L                   | $72000 \text{ cm}^3 = 72 \text{ L}$          |
| 6 | 6                      | a regular hexagon has 6                      |
| 7 | 36 km/h                | $45 \text{ min} = 0.75 \text{ h}; 27 / 0.75$ |
| 8 | 40                     | $160 \times 0.25$                            |
| 9 | 2/3                    | $5/6 + 2/6 - 3/6 = 4/6$                      |

**Section D (10%)**

| Q | Answer | Note              |
|---|--------|-------------------|
| 1 | April  | the highest point |
| 2 | 12 mm  | $27 - 15$         |
| 3 | 105 mm | $15+21+18+27+24$  |
| 4 | 21 mm  | $105 \div 5$      |
| 5 | 6 mm   | $27 - 21$         |

**Section E (24%)**

| <b>Q</b> | <b>Answer</b>  | <b>Working</b>                        |
|----------|----------------|---------------------------------------|
| 1        | <b>80 km/h</b> | $260 \div 3.25$                       |
| 2        | <b>31.4 m</b>  | $2 \times 3.14 \times 5$              |
| 3        | <b>160 L</b>   | $160000 \text{ cm}^3 = 160 \text{ L}$ |
| 4        | <b>33</b>      | $60 \times 0.55$                      |
| 5        | <b>9 L</b>     | $9000 \text{ cm}^3$                   |
| 6        | <b>108 L</b>   | $240 \times 0.45$                     |