

First Term Test — Practice Paper
Primary 5 Mathematics

Name: _____

Class: _____ No.: _____

Time allowed: **45 minutes**

Date: _____

No. of pages: **6**

Section A: 16%

1. $512 - 36 - 36 - 36 - 36 = ?$

1. _____

2. $98 \times 102 = ?$

2. _____

3. $36 \times 125 \div (4 \times 25) = ?$

3. _____

4. $7\frac{3}{5} - 2\frac{3}{4} + 1\frac{4}{5} = ?$

4. _____

5. $\frac{3}{4} - \frac{7}{12} + \frac{5}{18} = ?$

5. _____

6. $8\frac{2}{9} - 5\frac{5}{6} = ?$

6. _____

7. $\frac{2}{5} + \frac{3}{4} + \frac{5}{6} = ?$

7. _____

8. $6 - 3\frac{7}{12} + 2\frac{5}{8} = ?$

8. _____

Section B: 20%

Write the answers in the spaces provided.

1. In the number 604 738, what is the digit in the ten-thousands place?

1. _____

2. Express $\frac{42}{56}$ in its simplest form.

2. _____

3. How many 'one-eighths' are there in 3?

3. _____

4. List all the factors of 45.

4. _____

5. Find the H.C.F. of 18 and 24.

5. _____

6. Arrange the fractions from the smallest to the largest:

$\frac{5}{6}, \frac{3}{4}, \frac{7}{12}$

6. _____

7. $4\frac{2}{9} = \frac{x}{9}$, $x = ?$

7. _____

8. Use 3, 8, 0, 5, 2 to form the largest 5-digit even number.

8. _____

9. If Town P is to the SW of Town Q, what is the direction of Town Q from Town P?

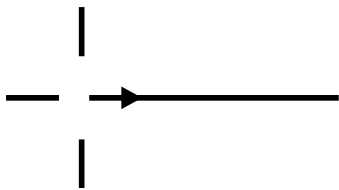
9. _____

10. Name the quadrilateral which has 4 sides of equal length but no right angles.

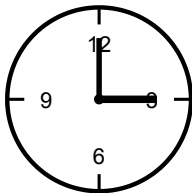
10. _____

Section C: 30%

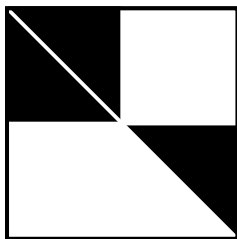
1. (a) A car is moving east. If it turns right at the crossroads, in what direction will it be heading? (2%) 1. (a) _____



- (b) The clock below shows 3 o'clock. The hour hand is pointing at E. At what direction is the minute hand pointing? (1%) 1. (b) _____

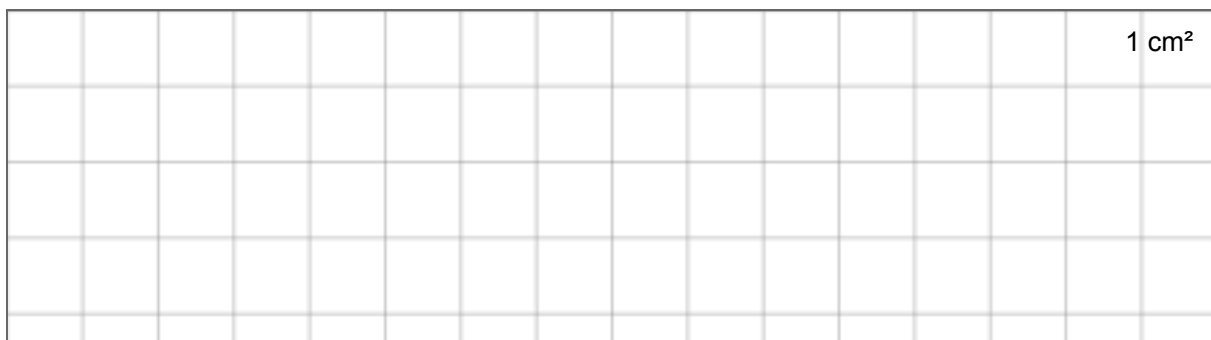


2. (a) What is the total number of identical triangles in the figure below? (1%) 2. (a) _____
 (b) What fraction of the whole figure is shaded? (2%) 2. (b) _____

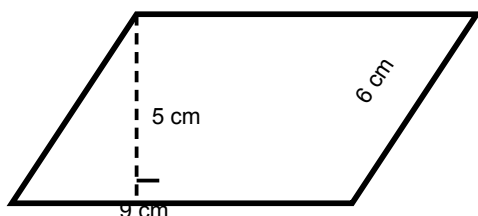


3. Draw and shade two **different** parallelograms with area 16 cm^2 in the space below. (4%) 3.

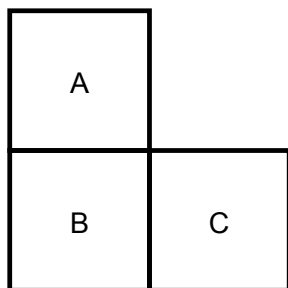
(You must show the base and the height, and draw with a ruler and a pencil.)



4. Find the perimeter and the area of the parallelogram below. 4. Perimeter: _____ cm (2%)
 Area: _____ cm^2 (2%)



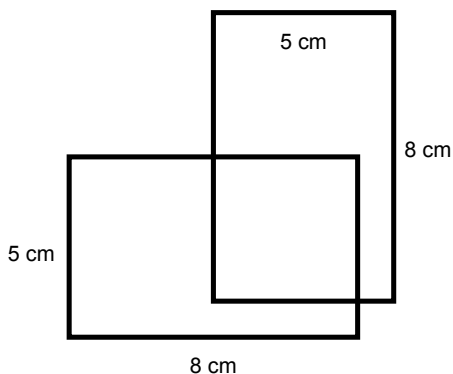
5. A, B and C are 3 identical squares and the perimeter of the figure is 48 cm. Find the area of square A. (3%) 5. _____ cm^2



6. In the figure below, the base and the height of the large parallelogram are 3 times those of the small parallelogram. What is the area of the shaded part? (3%) 6. _____ cm^2

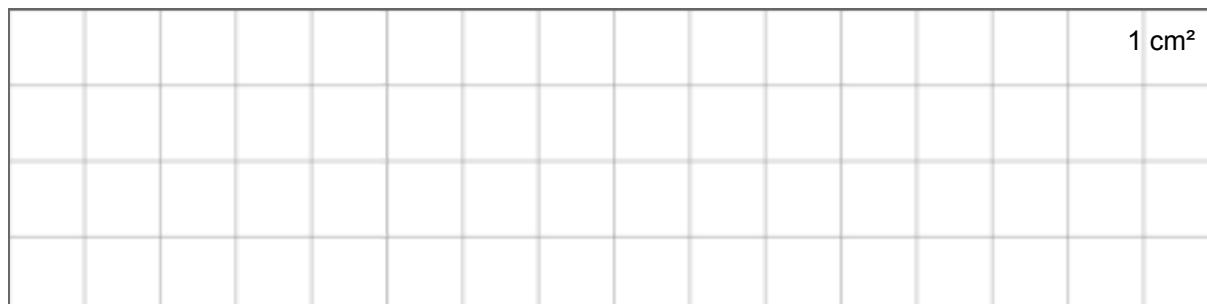


7. Two rectangular cards are of the same size and each is 8 cm long and 5 cm wide. They overlap as shown in the diagram. What is the area of the figure so formed? (3%) 7. _____ cm^2



8. Draw and shade two triangles of different shapes but of the same area 12 cm^2 on the squared paper below. (4%) 8.

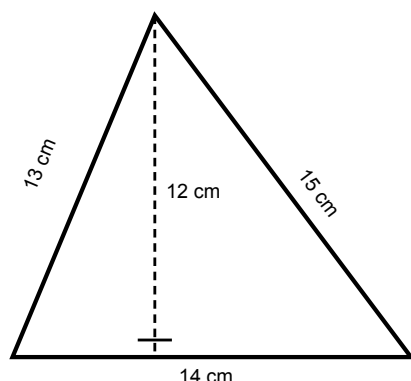
(You must show the base and the height, and draw with a ruler and a pencil.)



9. Find the perimeter and the area of the triangle below.

9. Perimeter: _____ cm (1%)

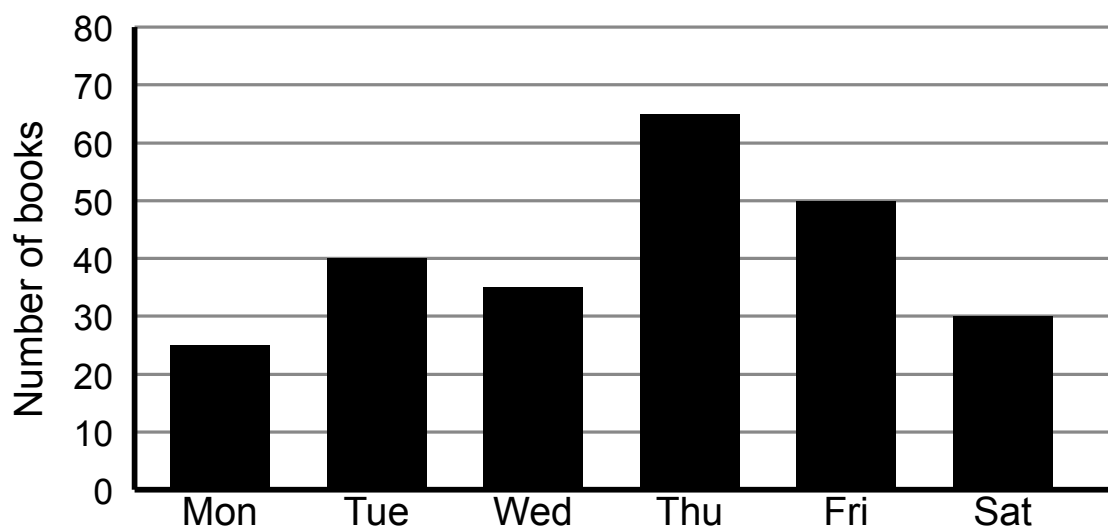
Area: _____ cm² (2%)



Section D: (10%)

Study the following graph carefully and answer the following questions.

Number of library books borrowed from Monday to Saturday



1. How many books were borrowed on Tuesday and Friday altogether?

1. _____ books

2a. On which day were the most books borrowed?

2a. _____

b. What was the number of books borrowed on that day?

b. _____

3. Find the total number of books borrowed in these 6 days.

3. _____ books

4. Between which two days did the number of books borrowed increase the most?

4. _____

5. Give one reason why fewer books were borrowed on Saturday than on Friday.

5.

Section E: 24% (Write the statements and show all working steps)

1. The perimeter of a rectangular notice board is 96 cm. Its breadth is 18 cm. Find its area. (4%) 1.

2. The height of a parallelogram is 9 cm. Its base is 3 times its height. Find the area of the parallelogram. (4%) 2.

3. Mr Chan wants to sew a lace border around a square tablecloth of side 145 cm. The lace costs \$3 per cm. What is the cost of the lace? (4%) 3.

4. 1 kg of prawns costs \$96. It costs 3 times as much as 1 kg of chicken. Mrs Lee buys 2 kg of prawns and 3 kg of chicken. She pays \$500. How much change does she get? (4%) 4.

5. Every day Miss Wong works $4\frac{1}{4}$ hours in the morning and $2\frac{2}{3}$ hours in the afternoon. She has worked $2\frac{5}{6}$ hours today. How many more hours does she still have to work? (4%) 5.

6. Ken weighs $38\frac{3}{4}$ kg and his sister is $2\frac{5}{8}$ kg lighter than him. What is their total weight? (4%) 6.

End of Paper

Answer Key and Marking Notes — Teacher's Copy
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Section A (16%, 2% each)

Q	Answer	Working / marking note
1	368	$36 \times 4 = 144$; $512 - 144$
2	9996	$98 \times 100 + 98 \times 2 = 9800 + 196$
3	45	$4 \times 25 = 100$ first; $36 \times 125 \div 100 = 4500 \div 100$
4	$6 \frac{13}{20}$	$7.6 - 2.75 + 1.8 = 6.65$; or L.C.M. 20 throughout
5	$\frac{4}{9}$	L.C.M. 36: $27 - 21 + 10 = 16$, then $16/36 = 4/9$
6	$2 \frac{7}{18}$	$148/18 - 105/18 = 43/18$
7	$1 \frac{59}{60}$	L.C.M. 60: $24 + 45 + 50 = 119/60$
8	$5 \frac{1}{24}$	$6 - 3 \frac{7}{12} = 2 \frac{5}{12}$; $2 \frac{10}{24} + 2 \frac{15}{24} = 4 \frac{25}{24}$

Award the mark only if the answer is in its simplest form. An unsimplified answer (e.g. 16/36 in Q5) scores 0 for that item.

Section B (20%, 2% each)

Q	Answer	Note
1	0	604 738 — the ten-thousands digit is 0; accept only 0
2	$\frac{3}{4}$	Divide the top and the bottom by 14
3	24	$3 \div 1/8 = 24$
4	1, 3, 5, 9, 15, 45	All six needed; a missing or an extra factor scores 0
5	6	$18 = 2 \times 3^2$, $24 = 2^3 \times 3$
6	$\frac{7}{12}$, $\frac{3}{4}$, $\frac{5}{6}$	L.C.M. 12: $7/12$, $9/12$, $10/12$
7	$x = 38$	$4 \frac{2}{9} = 38/9$
8	85 302	Largest digits first, but the units digit must be even (0 or 2)
9	NE	The reverse direction of SW
10	rhombus	Accept rhombus. Not «square» — a square has right angles

Section C (30%)

Q	Answer	Working / marking note
1(a)	S (south) · 2%	Facing east, a right turn is 90° clockwise → south
1(b)	N (north) · 1%	The minute hand points at 12; with 3 o'clock pointing east, 12 points north
2(a)	8 · 1%	2 diagonals + 2 mid-lines cut the square into 8 identical triangles
2(b)	$\frac{3}{8}$ · 2%	3 shaded out of 8; must be simplified
3	Any two different parallelograms with base × height = 16 cm ²	4% = two correct figures with the base and the height labelled; 2% = only one correct; 0 = the same shape drawn twice
4	Perimeter 30 cm (2%) · Area 45 cm² (2%)	(9 + 6) × 2 ; 9 × 5. Using the slant side (6 cm) as the height in the area part scores 0
5	36 cm² · 3%	The figure has 8 square-edges exposed: 48 ÷ 8 = 6 cm; then 6 × 6
6	80 cm² · 3%	Large 15 × 6 = 90; small 5 × 2 = 10; 90 – 10
7	64 cm² · 3%	40 + 40 – 16 (the overlap is 4 cm × 4 cm). Adding the overlap instead of subtracting it scores 0
8	Two triangles of different shapes, each $\frac{1}{2} \times \text{base} \times \text{height} = 12$	4% = two correct triangles with the base and the height shown; 2% = one correct; the same shape twice = 0
9	Perimeter 42 cm (1%) · Area 84 cm² (2%)	13 + 14 + 15 ; 14 × 12 ÷ 2

Section D (10%, 2% each)

Q	Answer	Note
1	90 books	40 + 50
2(a)(b)	Thursday; 65 books	Both parts are needed for the 2%
3	245 books	25 + 40 + 35 + 65 + 50 + 30
4	Wednesday and Thursday	+30 books; the next largest rise is +15
5	Any sensible reason	e.g. the library closes earlier on Saturday / fewer pupils come to school on Saturday

Section E (24%, 4% each)

Q	Answer	Working / marking note
1	Length 30 cm; area 540 cm²	$96 \div 2 - 18 = 30$; 30×18
2	243 cm²	Base = $9 \times 3 = 27$; 27×9
3	\$1740	$145 \times 4 = 580$ cm of lace ; $580 \times \$3$
4	\$212	Chicken $\$96 \div 3 = \$32$; $96 \times 2 + 32 \times 3 = 288$; $500 - 288$
5	$4 \frac{1}{12}$ hours	$4 \frac{1}{4} + 2 \frac{2}{3} = 6 \frac{11}{12}$; $6 \frac{11}{12} - 2 \frac{5}{6} = 4 \frac{1}{12}$
6	$74 \frac{7}{8}$ kg	Sister $38 \frac{3}{4} - 2 \frac{5}{8} = 36 \frac{1}{8}$; $38 \frac{3}{4} + 36 \frac{1}{8} = 74 \frac{7}{8}$

Section E marking: 1% for a correct statement/equation, 1% for the correct substitution, 1% for the correct numerical value, 1% for the correct unit. A correct answer with no working scores at most 2%, because the section instruction asks for statements and working steps.

Four places where marks are most often lost in this paper

Trap	What the pupil writes	What should happen
Section A Q5 — the L.C.M. is 36, not 24	Uses $24 \rightarrow 18 - 14 + 6 = 10/24$	12 and 18 share 36; $16/36$ must be simplified to $4/9$
Section C Q4 — the slant side used as the height	$(9 + 6) \times 2 = 30$ for the area	Area uses the perpendicular height: $9 \times 5 = 45 \text{ cm}^2$
Section C Q7 — the overlap double-counted or ignored	$40 + 40 = 80$, or $40 + 40 + 16$	Subtract the overlap once: $40 + 40 - 16 = 64 \text{ cm}^2$
Section E Q1 — the halving of the perimeter left out	$96 - 18 = 78$ for the length	$96 \div 2 = 48$; $48 - 18 = 30$ cm for the length

How to use this paper

- ① 45 minutes, no calculator, one sitting — Sections A and B about 13 minutes, Section C 15 minutes, Section D 5 minutes, Section E 12 minutes.
- ② Mark with the notes above; record «statement missing» and «unit missing» separately from «wrong answer».
- ③ Items lost in Sections A or B are concept gaps — redo three similar items before moving on. Items lost only in Section E are presentation gaps — practise writing the statement line first.
- ④ Redo the whole paper after seven days; the target is 90% or above on the second attempt.