

## Year 3 Term 3 Homework

<b>Student Name:</b> _____	<b>Grade:</b> _____
<b>Date:</b> _____	<b>Score:</b> _____

### Table of contents

<b>9</b>	<b>Year 3 Term 3 Week 9 Homework</b>	<b>1</b>
9.1	Topic 1 — Fractions . . . . .	1
9.1.1	Simplifying Fractions 4 . . . . .	1
9.1.2	Equivalent Fractions 4 . . . . .	2
9.1.3	Adding Fractions 5 . . . . .	3
9.1.4	Subtracting Fractions 5 . . . . .	4
9.2	Topic 2 — Time Passages . . . . .	5
9.2.1	Time Passages 7 . . . . .	5
9.2.2	Time Passages 8 . . . . .	6
9.3	Topic 3 — Algebra . . . . .	7
9.3.1	Number Problems 4 . . . . .	7
9.3.2	Equations 4 . . . . .	8
9.4	Topic 4 — Measurements . . . . .	9
9.5	Quiz 9 . . . . .	12

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## 9 Year 3 Term 3 Week 9 Homework

### 9.1 Topic 1 — Fractions

#### 9.1.1 Simplifying Fractions 4

$$\textcircled{1} \frac{16}{24} = \underline{\hspace{2cm}} \quad \textcircled{2} \frac{300}{110} = \underline{\hspace{2cm}} \quad \textcircled{3} \frac{9}{36} = \underline{\hspace{2cm}}$$

$$\textcircled{4} \frac{180}{100} = \underline{\hspace{2cm}} \quad \textcircled{5} \frac{60}{48} = \underline{\hspace{2cm}} \quad \textcircled{6} \frac{88}{56} = \underline{\hspace{2cm}}$$

$$\textcircled{7} \frac{70}{10} = \underline{\hspace{2cm}} \quad \textcircled{8} \frac{52}{44} = \underline{\hspace{2cm}} \quad \textcircled{9} \frac{66}{24} = \underline{\hspace{2cm}}$$

$$\textcircled{10} \frac{75}{27} = \underline{\hspace{2cm}} \quad \textcircled{11} \frac{14}{42} = \underline{\hspace{2cm}} \quad \textcircled{12} \frac{145}{60} = \underline{\hspace{2cm}}$$

$$\textcircled{13} \frac{6}{4} = \underline{\hspace{2cm}} \quad \textcircled{14} \frac{117}{90} = \underline{\hspace{2cm}} \quad \textcircled{15} \frac{6}{12} = \underline{\hspace{2cm}}$$

$$\textcircled{16} \frac{108}{12} = \underline{\hspace{2cm}} \quad \textcircled{17} \frac{9}{54} = \underline{\hspace{2cm}} \quad \textcircled{18} \frac{38}{24} = \underline{\hspace{2cm}}$$

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Score: \_\_\_\_\_

## 9.1.2 Equivalent Fractions 4

①  $\frac{4}{7} = \frac{21}{21} = \frac{28}{28} = \frac{70}{70}$

②  $\frac{6}{13} = \frac{42}{42} = \frac{39}{39} = \frac{30}{30}$

③  $\frac{9}{11} = \frac{110}{110} = \frac{36}{36} = \frac{55}{55}$

④  $\frac{3}{4} = \frac{12}{12} = \frac{12}{12} = \frac{20}{20}$

⑤  $\frac{3}{10} = \frac{21}{21} = \frac{20}{20} = \frac{12}{12}$

⑥  $\frac{7}{9} = \frac{36}{36} = \frac{49}{49} = \frac{18}{18}$

⑦  $\frac{12}{14} = \frac{112}{112} = \frac{36}{36} = \frac{56}{56}$

⑧  $\frac{6}{14} = \frac{18}{18} = \frac{98}{98} = \frac{36}{36}$

⑨  $\frac{1}{2} = \frac{8}{8} = \frac{20}{20} = \frac{2}{2}$

⑩  $\frac{10}{11} = \frac{33}{33} = \frac{90}{90} = \frac{110}{110}$

⑪  $\frac{9}{12} = \frac{36}{36} = \frac{63}{63} = \frac{72}{72}$

⑫  $\frac{1}{3} = \frac{12}{12} = \frac{9}{9} = \frac{18}{18}$

⑬  $\frac{4}{11} = \frac{22}{22} = \frac{32}{32} = \frac{99}{99}$

⑭  $\frac{12}{15} = \frac{60}{60} = \frac{105}{105} = \frac{24}{24}$

⑮  $\frac{2}{12} = \frac{18}{18} = \frac{72}{72} = \frac{20}{20}$

⑯  $\frac{2}{4} = \frac{16}{16} = \frac{24}{24} = \frac{14}{14}$

⑰  $\frac{10}{15} = \frac{135}{135} = \frac{60}{60} = \frac{120}{120}$

⑱  $\frac{4}{8} = \frac{36}{36} = \frac{64}{64} = \frac{28}{28}$

⑲  $\frac{3}{7} = \frac{42}{42} = \frac{9}{9} = \frac{14}{14}$

⑳  $\frac{2}{6} = \frac{4}{4} = \frac{60}{60} = \frac{18}{18}$

Score: \_\_\_\_\_

**9.1.3 Adding Fractions 5**

$$\textcircled{1} \quad 4\frac{1}{2} + 4\frac{1}{2} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad \frac{2}{8} + \frac{1}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad 2\frac{4}{9} + 2\frac{3}{9} = \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad 3\frac{4}{6} + 1\frac{2}{6} = \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad 1\frac{1}{7} + 3\frac{3}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad 2\frac{3}{8} + 1\frac{3}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad \frac{1}{3} + 4\frac{2}{3} = \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad 2\frac{2}{3} + 4\frac{2}{3} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad 3\frac{3}{5} + 2\frac{2}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad 2\frac{4}{7} + 3\frac{4}{7} = \underline{\hspace{10cm}}$$

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Score: \_\_\_\_\_

**9.1.4 Subtracting Fractions 5**

$$\textcircled{1} \quad 1\frac{2}{4} - 1\frac{1}{4} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad \frac{2}{8} - \frac{1}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad 2\frac{1}{2} - 1\frac{1}{2} = \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad 1\frac{2}{4} - \frac{3}{4} = \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad 1\frac{3}{4} - \frac{2}{4} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad 1\frac{1}{8} - \frac{2}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad 2\frac{1}{6} - \frac{3}{6} = \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad 1\frac{4}{7} - \frac{3}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad \frac{4}{8} - \frac{3}{8} = \underline{\hspace{10cm}}$$

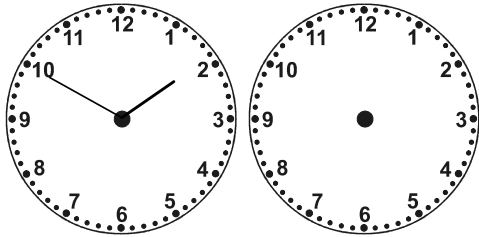
$$\textcircled{10} \quad 2\frac{2}{6} - \frac{1}{6} = \underline{\hspace{10cm}}$$

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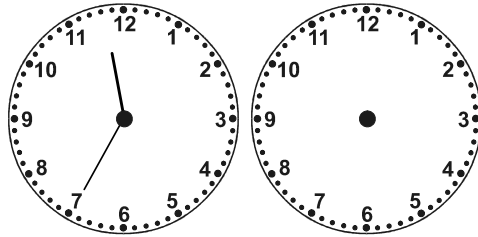
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## 9.2 Topic 2 — Time Passages

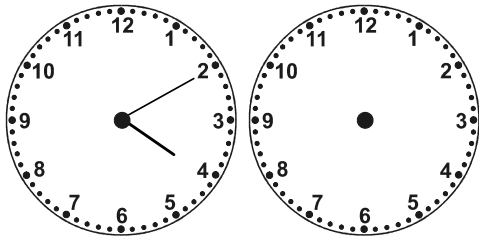
### 9.2.1 Time Passages 7



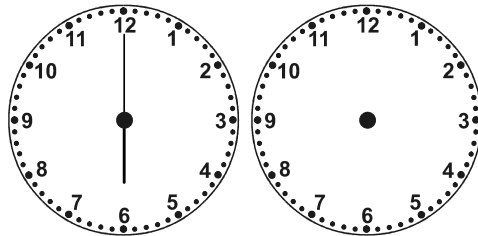
① What time will it be in 2 hr 10 min ?



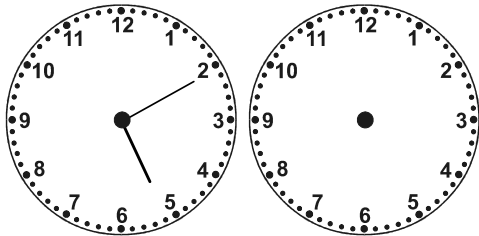
② What time will it be in 1 hr 5 min ?



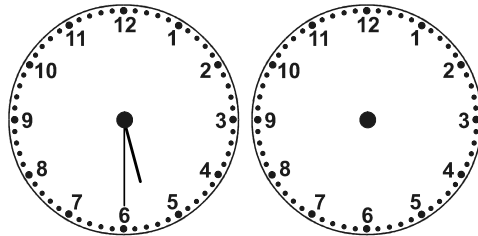
③ What time will it be in 1 hr 50 min ?



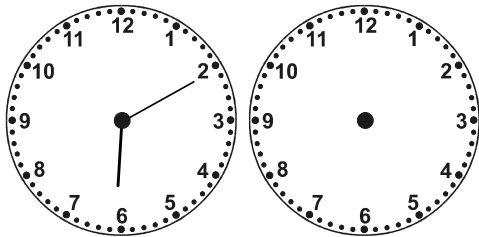
④ What time will it be in 2 hr 35 min ?



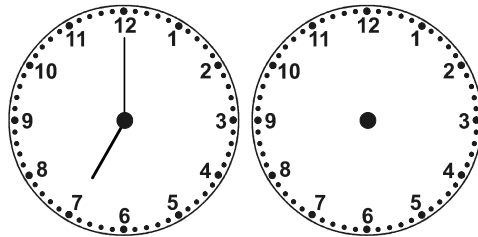
⑤ What time will it be in 1 hr 10 min ?



⑥ What time will it be in 1 hr 40 min ?



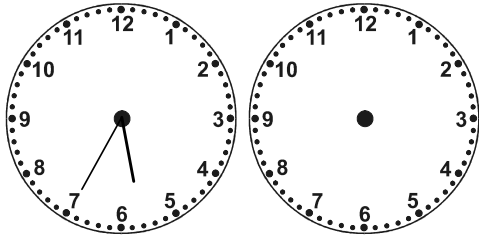
⑦ What time will it be in 1 hr 50 min ?



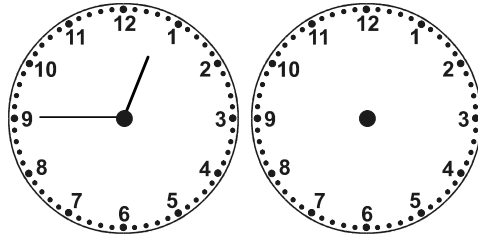
⑧ What time will it be in 2 hr 50 min ?

Score: \_\_\_\_\_

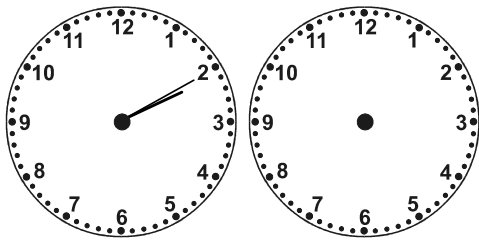
9.2.2 Time Passages 8



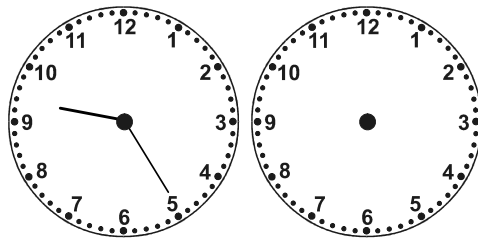
① What time was it 1 hr 40 min ago?



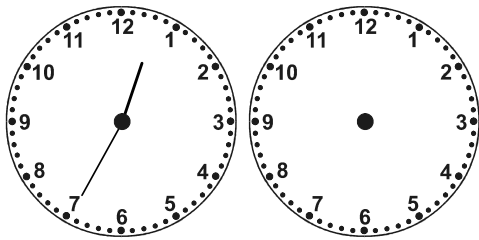
② What time was it 2 hr 55 min ago?



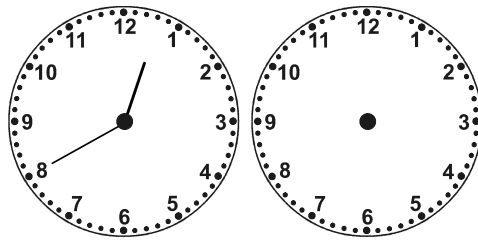
③ What time was it 1 hr 25 min ago?



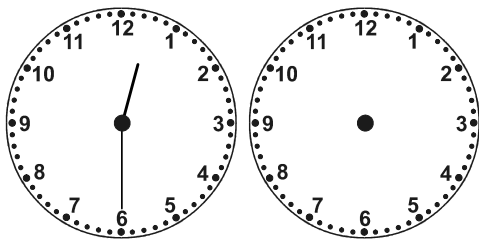
④ What time was it 1 hr 30 min ago?



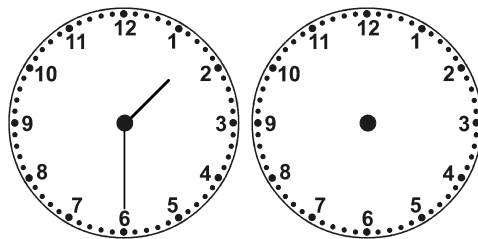
⑤ What time was it 2 hr 20 min ago?



⑥ What time was it 2 hr 55 min ago?



⑦ What time was it 2 hr 35 min ago?



⑧ What time was it 2 hr 35 min ago?

Score: \_\_\_\_\_

**9.3 Topic 3 — Algebra****9.3.1 Number Problems 4**

- ① \_\_\_\_\_ One-fourth of a number increased by 5 is 10. What is the number?
- ② \_\_\_\_\_ The difference of a number and seven is equal to 2. What is the number?
- ③ \_\_\_\_\_ Twice a number is 6. What is the number?
- ④ \_\_\_\_\_ The sum of a number and five is 16. Find the number.
- ⑤ \_\_\_\_\_ A number increased by nine is 12. Find the number.
- ⑥ \_\_\_\_\_ Ten times a number increased by 6 is 96. Find the number.
- ⑦ \_\_\_\_\_ Eleven less than a number is 4. Find the number.
- ⑧ \_\_\_\_\_ Five is equal to the quotient of a number and 11. Find the number.
- ⑨ \_\_\_\_\_ A number decreased by 3 is 9. Find the number.
- ⑩ \_\_\_\_\_ 30 is equal to the product of five and some number. Find the number.

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Score:



**9.3.2 Equations 4**

$$\textcircled{1} \quad 9x - 5 = 31 \quad \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad 2y + 9 = 21 \quad \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad 6x + 3 = 15 \quad \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad z + 3 = 10 \quad \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad 5x - 4 = 26 \quad \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad 3x - 4 = 20 \quad \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad 8z + 3 = 35 \quad \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad y + 8 = 15 \quad \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad x - 5 = 3 \quad \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad 4x - 3 = 21 \quad \underline{\hspace{10cm}}$$

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Score:

**9.4 Topic 4 — Measurements**

1. Convert these lengths into the unit stated: (1 m = 100 cm = 1000 mm, 1 km = 1000 m)

(a) 1.2 km = \_\_\_\_\_ m.

(b) 1.2 m = \_\_\_\_\_ cm.

(c) 1.2 m = \_\_\_\_\_ mm.

(d) 0.5 km = \_\_\_\_\_ m.

(e) 0.5 m = \_\_\_\_\_ cm.

(f) 0.5 m = \_\_\_\_\_ mm.

(g) 0.5 cm = \_\_\_\_\_ mm.

2. Convert these units into the unit stated: (1 kg = 1000 g, 1L = 100 cL = 1000 ml, 1cL = 10 mL)

(a) 1.2 kg = \_\_\_\_\_ g.

(b) 1.2 L = \_\_\_\_\_ ml.

(c) 1.2 L = \_\_\_\_\_ cL.

(d) 1.2 cL = \_\_\_\_\_ ml.

3. What is the perimeter of a square with sides of 12 cm?

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4. What is the perimeter of a square with sides of 1.6 m?

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5. What is the perimeter of a rectangle with one side measuring 40 cm and another side measuring 0.6 m?

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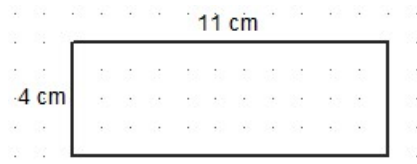
6. What is the area of a square with sides of 50 cm?

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**Exercise 9.4.1 Calculate the perimeters of the following figures:**

1. Perimeter = \_\_\_\_\_



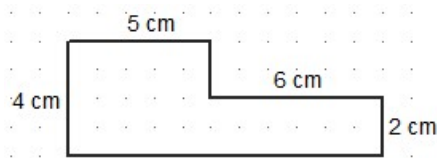
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2. Perimeter = \_\_\_\_\_



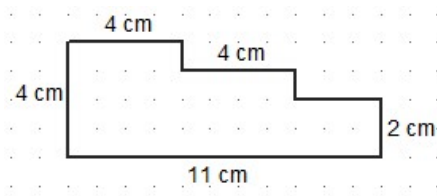
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3. Perimeter = \_\_\_\_\_



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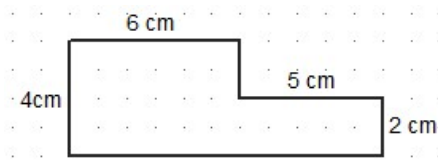
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**Exercise 9.4.2 Calculate the area of the following figures:**

1. Area = \_\_\_\_\_



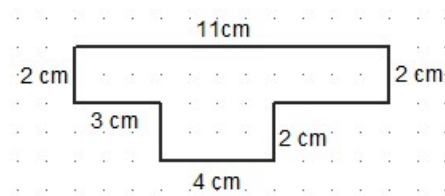
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2. Area = \_\_\_\_\_



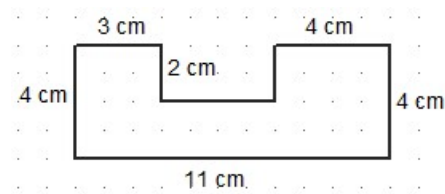
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3. Area = \_\_\_\_\_



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### 9.5 Quiz 9

1. What is the number half way between 25 and 35?

\_\_\_\_\_

2. How many centimetres in half a metre?

\_\_\_\_\_

3. What number is 3 tens more than 19?

\_\_\_\_\_

4. What date does Christmas fall each year?

\_\_\_\_\_

5. What date do Australians celebrate Australia Day?

\_\_\_\_\_

6. What day is Boxing day celebrated each year?

\_\_\_\_\_

7. Peter has 42 marbles. He loses 8 then wins 12. How many marbles does he have now?

\_\_\_\_\_

8. How many minutes are there in 3 and a quarter hours?

\_\_\_\_\_

9. How many seconds are there in  $2\frac{1}{3}$  minutes?

\_\_\_\_\_

10. Round off these numbers to the next nearest whole ten:

a) 123 = \_\_\_\_\_      b) 234 = \_\_\_\_\_      c) 345 = \_\_\_\_\_

11. Round off these numbers to the next nearest whole hundred:

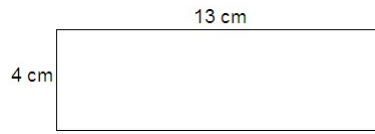
a) 236 = \_\_\_\_\_      b) 348 = \_\_\_\_\_      c) 654 = \_\_\_\_\_

12. Round off these numbers to the next nearest whole thousand:

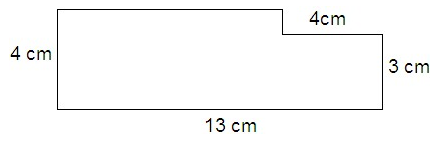
a) 1236 = \_\_\_\_\_      b) 1098 = \_\_\_\_\_      c) 641 = \_\_\_\_\_

13. Calculate the perimeters of the following figures (in cm):

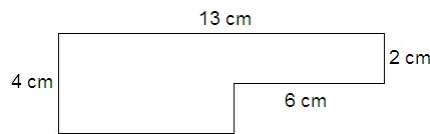
(a) P = \_\_\_\_\_



(b) P = \_\_\_\_\_

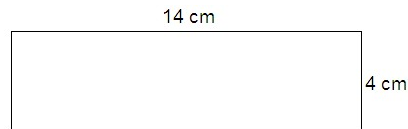


(c) P = \_\_\_\_\_

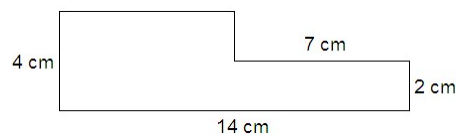


14. Calculate the area of the following figures (in  $cm^2$ ):

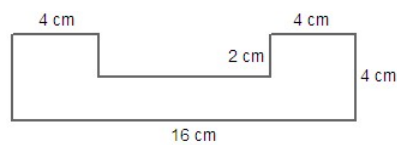
(a) A = \_\_\_\_\_



(b) A = \_\_\_\_\_



(c) A = \_\_\_\_\_



15. A 2 kg block of cheese is cut into five equal pieces. How much should each piece weigh?

\_\_\_\_\_

16. The symbol for kilogram is \_\_\_\_\_

17. 500 grams (g) = \_\_\_\_\_ kilogram.

18. How many 500 gram bags of salt can be filled from a container holding 4 kg?

\_\_\_\_\_

19. What mass must be added to  $2\frac{1}{2}$  kg to make 3 kg 250 g?

\_\_\_\_\_

20. How many times would you use a 100 ml scoop to fill a 1 L container?

\_\_\_\_\_

21. How many 150 mL cups are needed to half fill a 6L bucket?

\_\_\_\_\_

22. A 2L bottle of cordial is one quarter full. How many millilitres are in the bottle?

\_\_\_\_\_

23. 1 m 48 cm = \_\_\_\_\_ cm.

24. 508 cm = \_\_\_\_\_ m \_\_\_\_\_ cm.

25. 1000 cm = \_\_\_\_\_ metres.

26. How many days altogether in October and November? \_\_\_\_\_

27. If yesterday was Friday, what day will it be in three days time?

\_\_\_\_\_

28. How long would be the side of a square with a perimeter of 36 cm?

\_\_\_\_\_

29. The total distance around a closed shape is called the \_\_\_\_\_.

30. A rectangle has a perimeter of 28 cm. If one side of the rectangle is 6 cm, how long are the other sides?

\_\_\_\_\_