Test: Primary 6 Math (Term 2) - Nanyang

Points: 95 points

Name: _____   **Score:** _____

Date: _____

Signature: _____

Select multiple choice answers with a cross or tick:

○ Only select one answer

☐ Can select multiple answers

Question 1 of 50	Primary 6 Math (Term 2) 1 pt

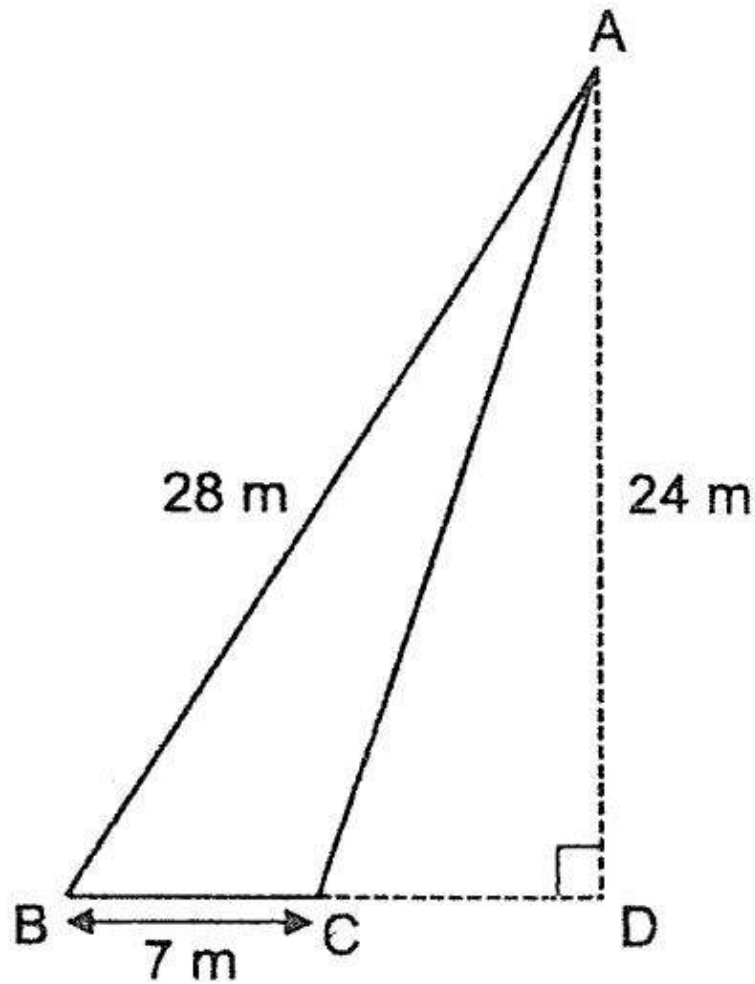**For each question, four options are given. One of them is the correct answer. (20 marks)**

Find the value of $\dfrac{3}{4} \div \dfrac{1}{8}$.

○ A) $\dfrac{1}{6}$

○ B) $\dfrac{3}{32}$

○ C) $10\dfrac{2}{3}$

○ D) 6

Find the area of triangle ABC as shown below.

- A) 84 m^2
- B) 98 m^2
- C) 168 m^2
- D) 336 m^2

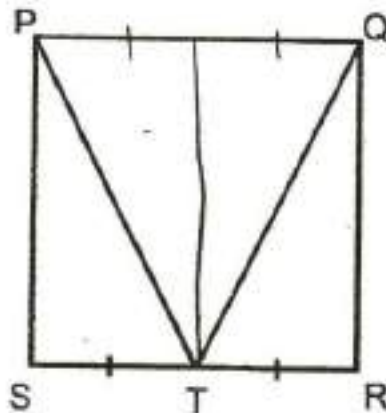**Question 3 of 50**   Primary 6 Math (Term 2)   1 pt

Find the area of a circle of radius 8 cm.   Leave your answer in terms of π.

A)
$$8\pi \text{ cm}^2$$

B)
$$16\pi \text{ cm}^2$$

C)
$$64\pi \text{ cm}^2$$

D)
$$256\pi \text{ cm}^2$$

Question 4 of 50   Primary 6 Math (Term 2)   1 pt

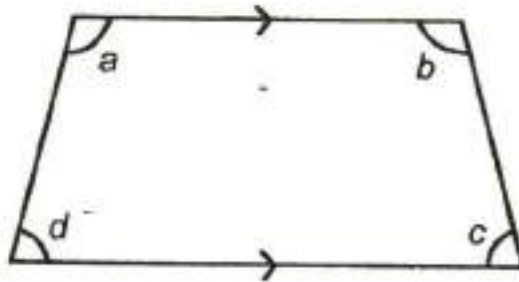In the figure below, PQRS is a square and ST = TR.   What type of triangle is triangle PQT?

A)   Isosceles triangle

B)   Equilateral triangle

C)   Right-angled triangle

D)   Obtuse-angled triangle

The figure below shows a trapezium. Which one of the following statements is true?

A)

$$\angle a = \angle c$$

B)

$$\angle b = \angle d$$

C)

$$\angle a + \angle b = \angle c + \angle d$$

D)

$$\angle a + \angle d = \angle b + \angle c$$

Question 6 of 50   Primary 6 Math (Term 2)   1 pt

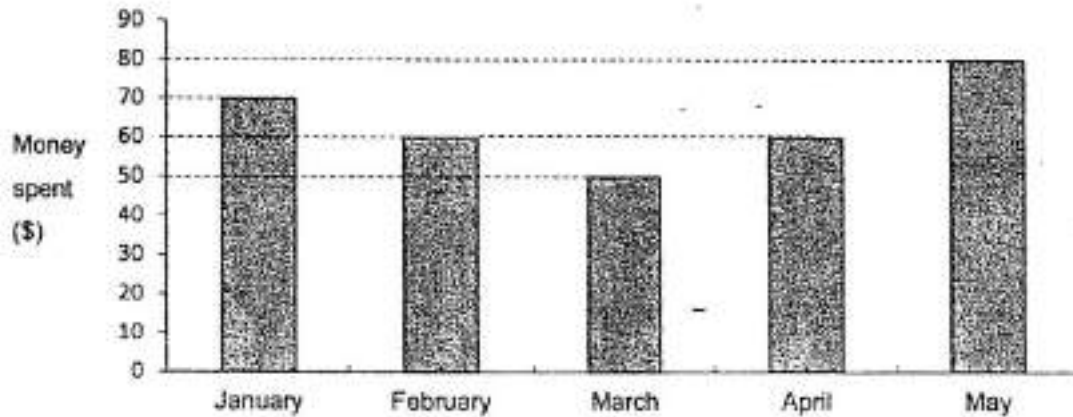Which one of the following is likely to be the mass of an unopened can of soda?

A)   4 g

B)   400 g

C)   4 kg

D)   40 kg

Question 7 of 50   Primary 6 Math (Term 2)   1 pt

Suraj was given $100 every month.   He spent some of the money and saved the rest.   The bar graph shows the amount of money he spent from January to May.

How much did he spend in February and May altogether?

___

A) $60

B) $80

C) $140

D) $250

Question 8 of 50   Primary 6 Math (Term 2)   1 pt

Suraj was given $100 every month.   He spent some of the money and saved
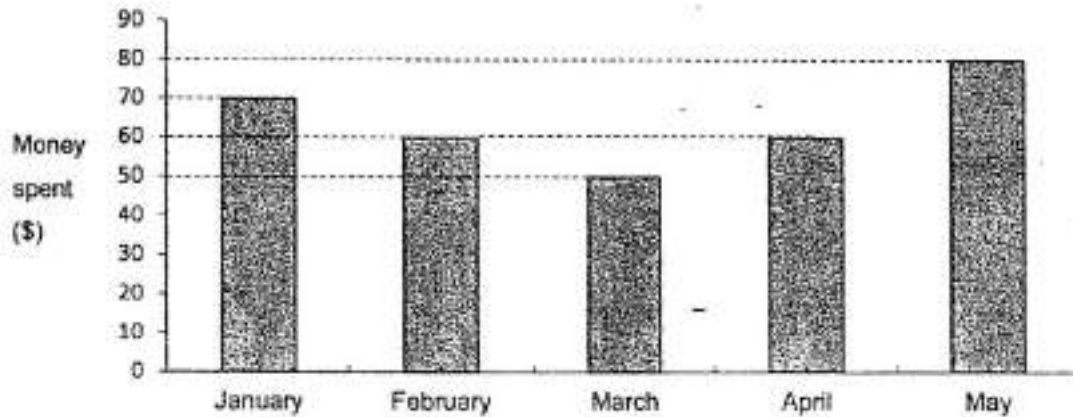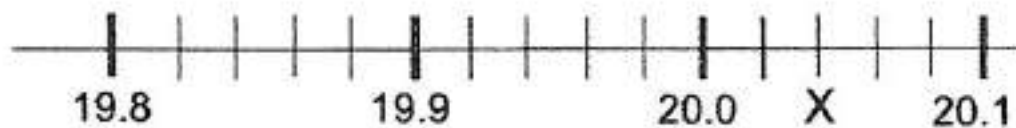the rest.   The bar graph shows the amount of money he spent from January
to May.

How much did he save in April?

○ **A)** $20
○ **B)** $40
○ **C)** $60
○ **D)** $80

Question 9 of 50   Primary 6 Math (Term 2)   1 pt

In the number line below, what is the value of X?
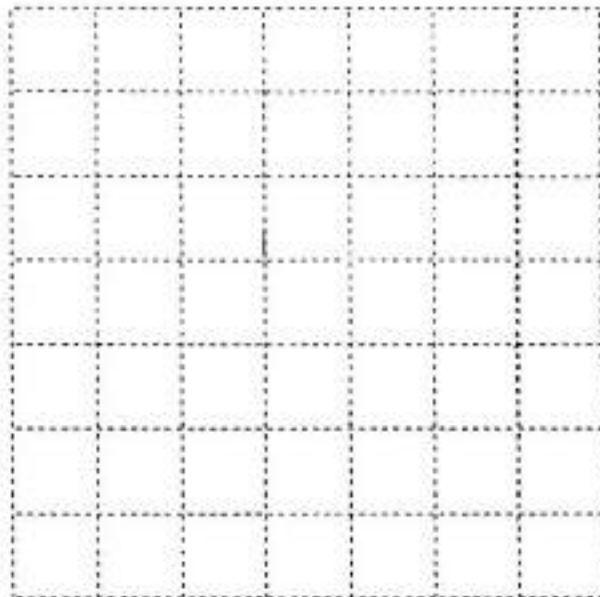

○ **A)** 20.2
○ **B)** 20.4
○ **C)** 20.02
○ **D)** 20.04

The solid is made up of unit cubes.   Draw the top view of the solid on the given square grid.
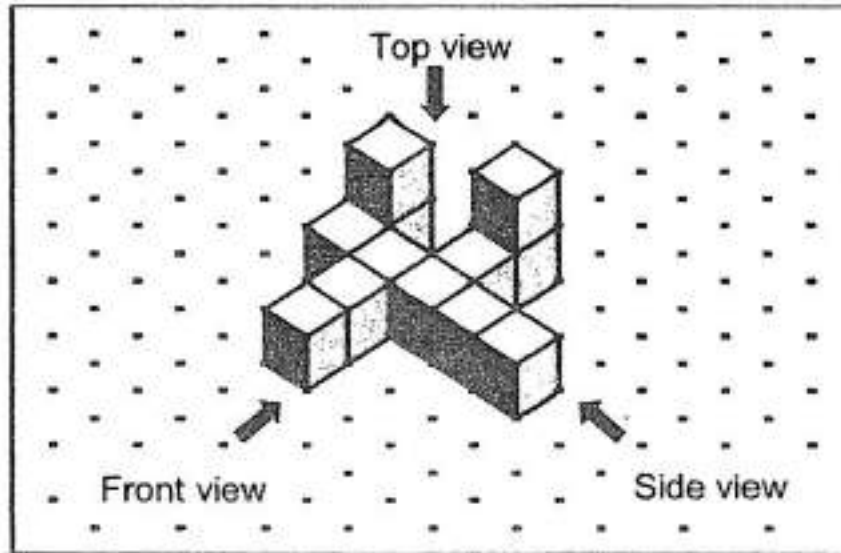
Top View

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 11 of 50   Primary 6 Math (Term 2)   0 pts

The figure below is made up of a semicircle and a quarter circle. The semicircle and the quarter circle have the same diameter. Find the perimeter of the figure. Leave your answer in terms of π.

5 cm   3 cm

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.
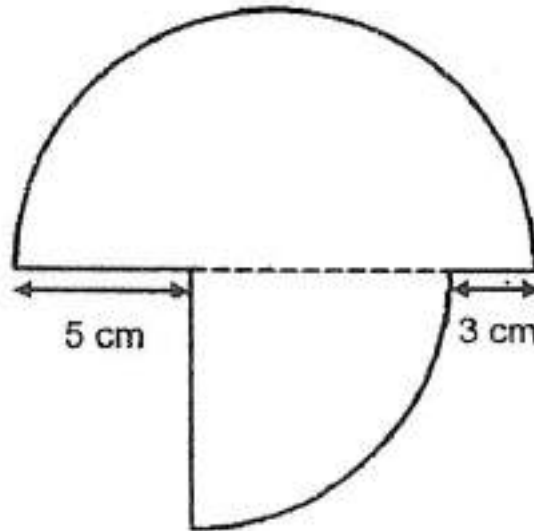
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 12 of 50   Primary 6 Math (Term 2)   0 pts

In the square grid below, construct an isosceles triangle DEF such that DF = EF.   The base and height of triangle DEF are equal.   The base, line DE, has been drawn for you.
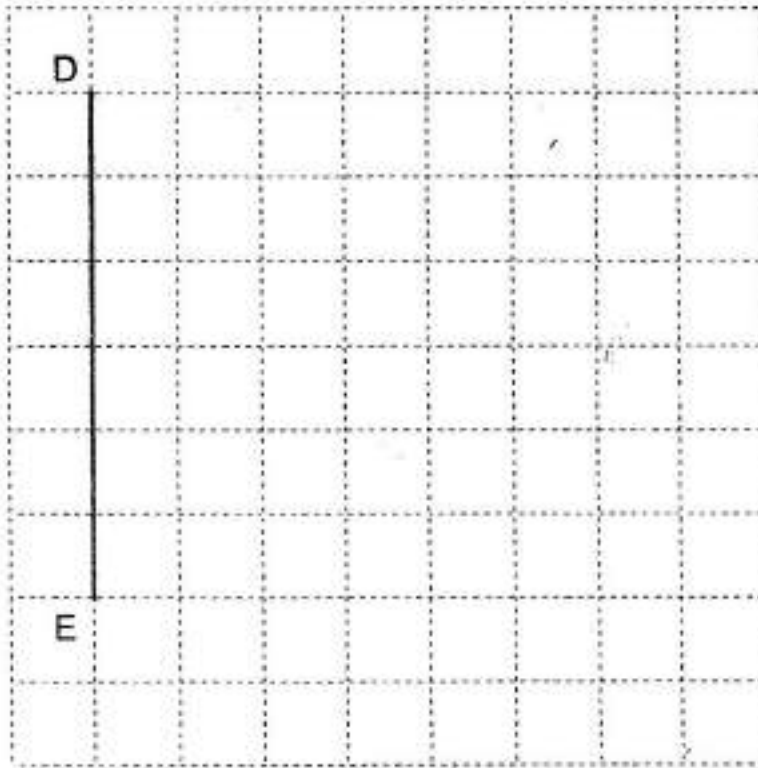

This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 13 of 50 Primary 6 Math (Term 2) 3 pts

In the figure below, ABD and BCD are triangles. ∠BAC = 34°, ∠BEC = 86° and AC = AD. ∠BAD is a right angle and AEC is a straight line. Find ∠BDC.
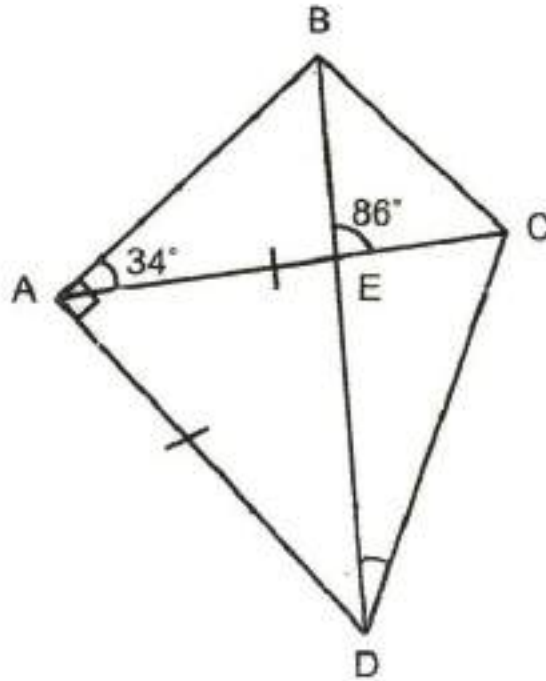
Question 14 of 50 Primary 6 Math (Term 2) 4 pts

Mr Yusof's candy shop had some cola candies and some mint candies at first. He then made more cola candies and sold 357 mint candies. As a result, there was a 20% increase in the number of cola candies and a 68% decrease in the number of mint candies. In the end, the ratio of the number of cola candies to the number of mint candies was 9 : 4. Find the number of cola candies at first.

Question 15 of 50
Primary 6 Math (Term 2)   1 pt

Express $\dfrac{5}{8}$ as a decimal.

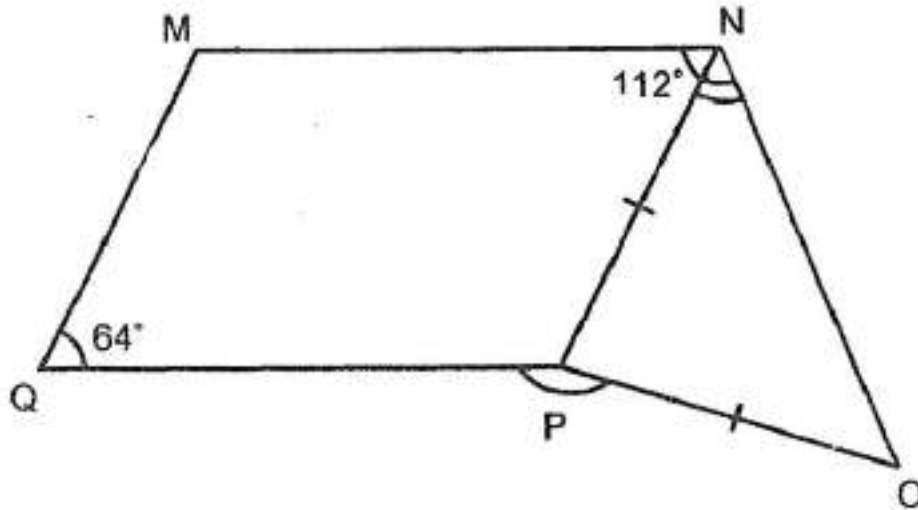**Question 16 of 50**
Primary 6 Math (Term 2)   4 pts

A shopkeeper had a total of 960 T-shirts and caps. The ratio of the number of T-shirts to the number of caps is 5 : 3. After selling an equal number of T-shirts and caps, the ratio of the number of T-shirts left to the number of caps left was 13 : 3. How many caps did the shopkeeper sell?

Question 17 of 50   Primary 6 Math (Term 2)   2 pts

In the figure below, MNPQ is a parallelogram and NOP is an isosceles triangle. $\angle MQP = 64°$, $\angle MNO = 112°$ and $PN = PO$.
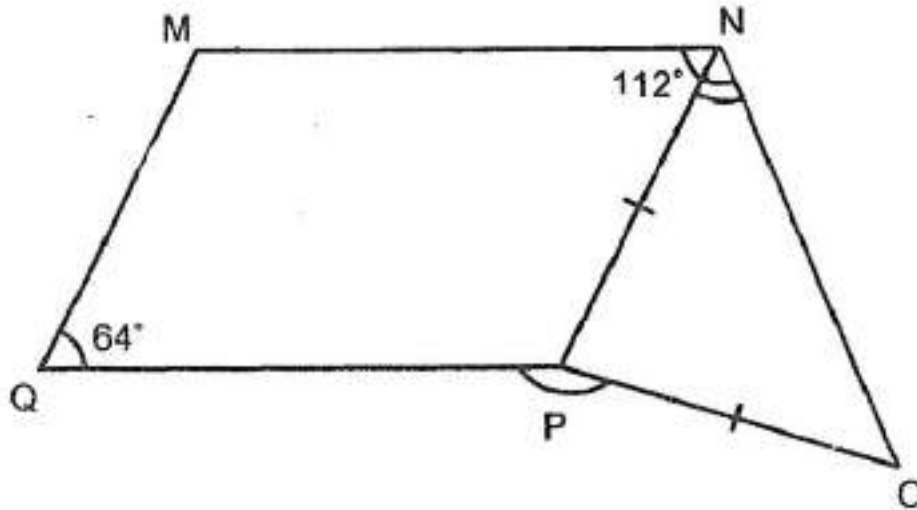

Find Angle ONP.

Question 18 of 50   Primary 6 Math (Term 2)   2 pts

In the figure below, MNPQ is a parallelogram and NOP is an isosceles triangle. ∠MQP = 64°, ∠MNO = 112° and PN = PO.

Find Angle OPQ.

Question 19 of 50   Primary 6 Math (Term 2)   1 pt

A cuboid of height 6 m has a square base of side 4 m. What is its volume?

Question 20 of 50   Primary 6 Math (Term 2)   1 pt

In the figure below, ABC is a triangle. $\angle ABC$ is a right angle and $\angle BAC = 58°$. Find $\angle ACB$.
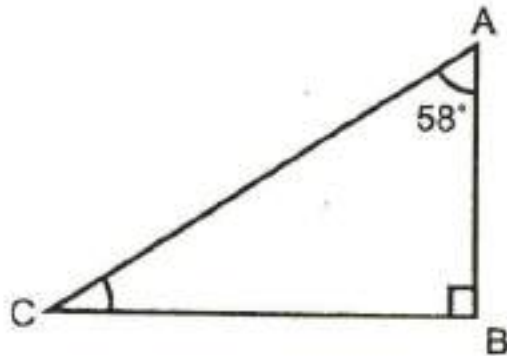
Question 21 of 50   Primary 6 Math (Term 2)   1 pt

In the figure below, PQRS is a parallelogram and $\angle PSR = 77°$.   Find $\angle QRS$.

Question 22 of 50

Primary 6 Math (Term 2)   2 pts

Each question carries 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)
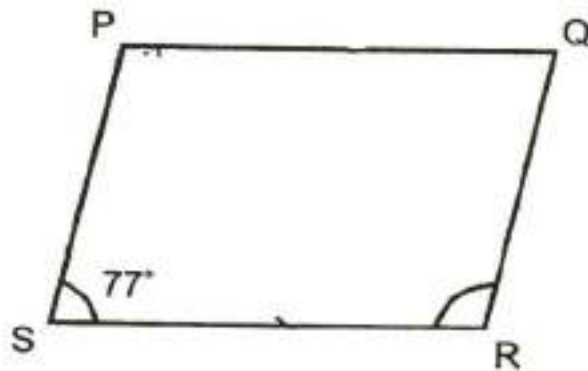
A circular wheel of diameter 30 cm made 2 complete turns. Find the distance covered by the wheel.   Take $\pi = 3.14$.

Question 23 of 50

Primary 6 Math (Term 2)   2 pts

The table below shows the favourite colours (red, blue, green and yellow) of a group of children.   The number of children who chose yellow as their favourite colour is not shown.

Red	40
Blue	56
Green	54
Yellow	?

The total number of children who chose red and blue is the same as the total number of children who chose green and yellow.   Find the number of children who chose yellow as their favourite colour.

Question 24 of 50   Primary 6 Math (Term 2)   4 pts

Brian had $228 more than Jia Ming. After Brian spent $\frac{1}{3}$ of his money and Jia Ming spent $\frac{3}{4}$ of his money, the amount Brian had left was $302 more than the amount Jia Ming had left. How much money did Brian have at first?
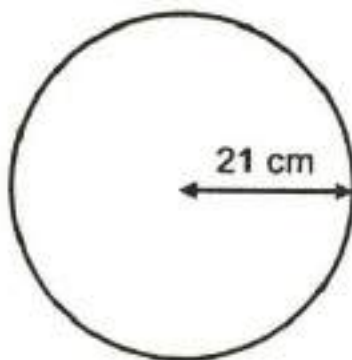
Question 25 of 50   Primary 6 Math (Term 2)   2 pts

Each question carries 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

The figure below shows a circle of radius 21 cm. Find its circumference. Take $\pi = \frac{22}{7}$.

21 cm

Question 26 of 50   Primary 6 Math (Term 2)   2 pts

Mr Tang deposited $4000 in a fixed deposit account at NY Bank which offered an interest rate of 2.3% per year. How much interest would Mr Tang receive at the end of 1 year?

Question 27 of 50   Primary 6 Math (Term 2)   2 pts

At a fruit stall, the cost of a pineapple is $\frac{7}{3}$ the cost of an orange. The cost of an apple is half the cost of the orange. The cost of the apple is $0.60. What is the cost of the pineapple?

Question 28 of 50   Primary 6 Math (Term 2)   4 pts

Rachel and Elijah received a fixed amount of money every month. In the first month, Rachel spent $5.60 per day and Elijah spent $2.80 per day. Rachel had $39.20 left when Elijah had spent all his money. In the second month, Rachel spent $2.80 per day and Elijah spent $5.60 per day. Rachel had $140 left when Elijah had spent all his money. How much money did Rachel receive every month?

Question 29 of 50   Primary 6 Math (Term 2)   2 pts

A machine prints 450 labels in 18 min.   At this rate, how long does the machine take to print 110 labels?

Question 30 of 50   Primary 6 Math (Term 2)   4 pts

Max, Ruby and Steve shared a packet of sweets.   The ratio of the total number of sweets Ruby and Steve received to the number of sweets Max received was 2 : 3.   After Max gave 9 sweets to Ruby and 23 sweets to Steve, the 3 children had the same number of sweets in the end.

How many sweets did Ruby have in the end?

Question 31 of 50   Primary 6 Math (Term 2)   1 pt

Max, Ruby and Steve shared a packet of sweets.   The ratio of the total number of sweets Ruby and Steve received to the number of sweets Max received was 2 : 3.   After Max gave 9 sweets to Ruby and 23 sweets to Steve, the 3 children had the same number of sweets in the end.
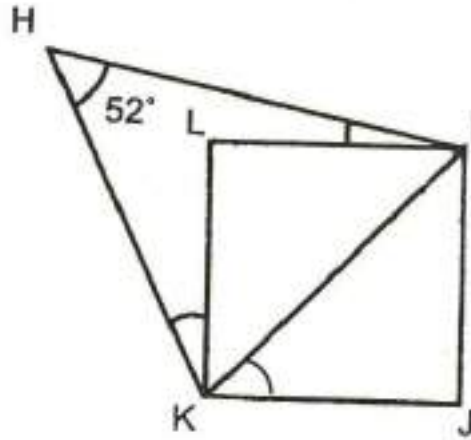
How many sweets did Steve have at first?

Question 32 of 50   Primary 6 Math (Term 2)   2 pts

In the figure below, IJKL is a square and HIK is a triangle. $\angle IHK = 52°$.
Find the sum of $\angle HIL$ and $\angle HKL$.

Question 33 of 50   Primary 6 Math (Term 2)   2 pts

The average of a group of numbers is 43. Three numbers, X, Y and Z, are removed from the group. The average of the remaining numbers remains as 43. The average of X and Y is 37. Find the value of Z.

Question 34 of 50   Primary 6 Math (Term 2)   2 pts

Su Ling bought 2 calculators and 16 markers.   Each calculator cost 12 times as much as each marker.   She gave the cashier $100 and received $20 as change.   What was the cost of 1 marker?

Question 35 of 50   Primary 6 Math (Term 2)   3 pts

Luke is $1\frac{1}{3}$ times as tall as Steve. $\frac{3}{8}$ of Steve's height is 45 cm.   Find the difference in height between the two boys.

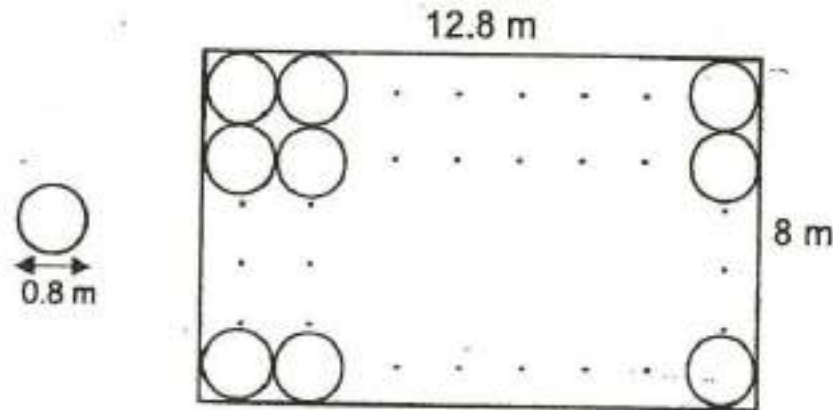**Question 36 of 50**   Primary 6 Math (Term 2)   3 pts

There are a total of 200 pens, pencils and erasers in a stationery shop. The number of pens and pencils are less than 100 each and they are both divisible by 3 and 4.   The number of pens is twice the number of pencils and there are fewer erasers than pens.   How many erasers are there?

The figure below shows a rectangular floor of a room measuring 12.8 m by 8 m. The rectangular floor was tiled using circular tiles of diameter 0.8 m. Each tile is in contact with those next to it. At most, how many of such tiles can be used to tile the rectangular floor?

Question 38 of 50   Primary 6 Math (Term 2)   5 pts

The figure below is made up of a circle, 2 identical large quarter circles and 4 identical smaller quarter circles. The length of AB is 20 cm. Find the area of the shaded part.   Take π = 3.14.

A   20 cm   B
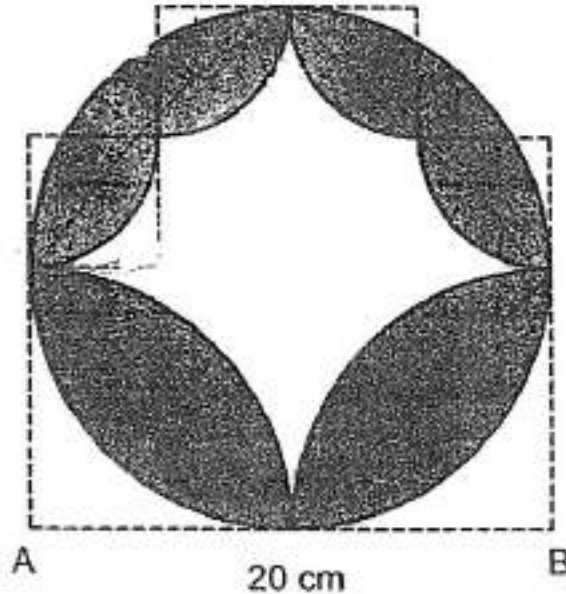
Question 39 of 50   Primary 6 Math (Term 2)   2 pts

A rope measuring $\frac{5}{8}$ m was cut equally into 6 shorter pieces.   Leroy took 3 such pieces.   How many metres of the rope did he take?

Question 40 of 50   Primary 6 Math (Term 2)   2 pts

Mrs Tay had some beads.   The ratio of the number of blue beads to the number of red beads was 2 : 5.   After using 25 red beads to sew on a bag, the ratio of the number of blue beads to the number of red beads became 8 : 15.   How many blue beads did she have?

Question 41 of 50   Primary 6 Math (Term 2)   2 pts

The recipe shown below is used to bake 20 chocolate chip cookies.

Chocolate chip cookies recipe
(Bake 20 pieces)
100 g of sugar
115 g of butter
150 g of flour
150 g of chocolate chips
1 large egg, 60 g

Mdm Chan wants to bake 50 chocolate chip cookies.   How much flour does she need?
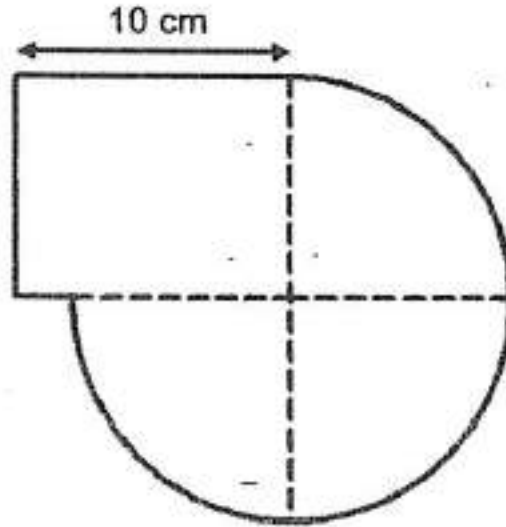
Question 42 of 50

Primary 6 Math (Term 2)   3 pts

The figure below is made up of 3 quarter circles and a rectangle. The rectangle has a length of 10 cm and an area of 80 cm². Find the perimeter of the figure. Take $\pi = 3.14$.

Question 43 of 50

Primary 6 Math (Term 2)   1 pt

Joyce baked some cookies. She gave 80% of the cookies to Zac. Zac ate 20% of the cookies he received from Joyce. Which one of the following shows the percentage of total cookies that Zac ate?

A)   1/5 x 20%

B)   1/5 x 80%

C)   4/5 x 80%

D)   4/5 x 100%

Question 44 of 50

Primary 6 Math (Term 2)   2 pts

Rajah paid $4.80 for a box of 20 pencils. What was the cost of each pencil?

A) $0.24

B) $0.48

C) $0.96

D) $2.40
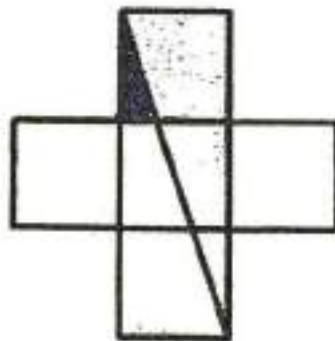
Question 45 of 50 Primary 6 Math (Term 2) 2 pts

Joan is *m* years old. Sara is thrice as old as Joan. Kavita is 8 years younger than Sara. What is Kavita's age? Express your answer in terms of *m.*

A) 3*m* - 8

B) 3*m* + 8

C) 4*m* - 8

D) 4*m* + 8

Question 46 of 50 Primary 6 Math (Term 2) 2 pts

The figure is made up of 5 identical squares. What fraction of the figure is shaded?

A) 1-Mar

B) 2-May

C) 3-Oct

D) 7-Oct

Question 47 of 50   Primary 6 Math (Term 2)   1 pt

A number has 15 as a factor.

The statement below is either true, false or not possible to tell from the information given.
Choose the correct following choices below that suits the statement.

The number is an odd number.

○ **A)**   TRUE

○ **B)**   FALSE

○ **C)**   Not possible to tell

Question 48 of 50   Primary 6 Math (Term 2)   1 pt

A number has 15 as a factor.

The statement below is either true, false or not possible to tell from the information given.
Choose the correct following choices below that suits the statement.

The number is a multiple of 5.

○ **A)**   TRUE

○ **B)**   FALSE

○ **C)**   Not possible to tell

Question 49 of 50   Primary 6 Math (Term 2)   2 pts
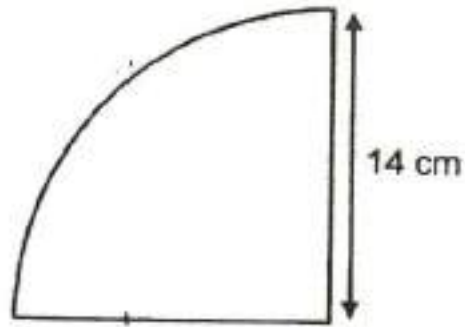
Olivia is $\frac{2}{7}$ as heavy as Sze Wei.   What is the ratio of the mass of Olivia to the total mass of Olivia and Sze Wei?

○ **A)**   2:07

○ **B)**   7:02

○ **C)**   2:09

○ **D)**   7:09

Question 50 of 50   Primary 6 Math (Term 2)   2 pts

The figure below shows a quarter circle of radius 14 cm. Find its perimeter. Take $\pi = \dfrac{22}{7}$.

14 cm

A) 11 cm

B) 22 cm

C) 39 cm

D) 50 cm