

Sample Exam 4 – Solutions

Session 4

Total: 75 marks

SECTION I

1. Write in words, the number represented in the place value chart below. [1]

Hundreds of Thousands	Tens of Thousands	Thousand	Hundred	Tens	Ones
5	1	7	0	8	4

Answer _____ **Five hundred and seventeen thousand and eighty-four** _____

2. The number 946 is decreased by 381. What is the new number? [1]

$$\begin{array}{r}
 946 \\
 - 381 \\
 \hline
 565
 \end{array}$$

Answer _____ **565** _____

3. Using the digits 1, 2 and 7, form the smallest number which is a multiple of 4. [1]

**127 is not divisible by 4 without having a remaining therefore it is not a multiple of 4.
As a result, the smallest number which can be formed that is a multiple of 4 is 172.**

Answer _____ **172** _____

4. Calculate 3.26×0.04

[1]

There are 4 total decimal places in both numbers.

Ignore the decimal places and complete the multiplication as if operating on two integers.

	H	T	O
	3	2	6
*			4
1	3	0	4

Rewrite the product with 4 total decimal places.

Answer _____ **0.1304** _____

5. Write the missing number in the box below to make the statement correct.

[1]

$$6^2 \div 4 = \boxed{27} \div 3$$

$$6^2 \div 4 = 36 \div 4 \\ = 9$$

$$9 = \boxed{} \div 3$$

$$\boxed{} = 9 \times 3 \\ = 27$$

6. Arrange the following decimal fractions in descending order.

0.31 0.13 1.3 1.03

[1]

Descending order means from largest to smallest in magnitude.

Ones	Tenths	Hundredths
0	3	1
0	1	3
1	3	0
1	0	3

1.3 has 1 ones and 3 tenths

1.03 has 1 ones and 3 hundredths

0.31 has 3 tenths and 1 hundredths

0.13 has 1 tenth and 3 hundredths

Answer _____ 1.3, 1.03, 0.31, 0.13 _____

7. $\frac{7}{9} - \frac{2}{3} =$

[1]

$$= \frac{7}{9} - \frac{2}{3}$$

$$= \frac{(7 \times 1) - (2 \times 3)}{9}$$

$$= \frac{7-6}{9}$$

$$= \frac{1}{9}$$

Answer _____ $\frac{1}{9}$ _____

8. Aydon has 9 bills in his wallet with a total value of \$107.

[1]

\$5	\$1	\$50
\$20	\$1	\$10
\$5	\$ <u>10</u>	\$ <u>5</u>

Write the missing values in the 2 bills above.

Total value of 9 bills = \$107

Value of known bills = \$5 + \$1 + \$50 + \$20 + \$1 + \$10 + \$5
= \$92

Value of unknown bills = \$107 - \$92
= \$15

Therefore, the unknown bills are a \$5 and a \$10 note.

9. If $\frac{7}{12}$ of a number is 56, what is the number?

[1]

$\frac{7}{12}$ of number = 56

Whole number = $\frac{12}{7} \times 56$

= 96

Answer _____ 96 _____

10. Four boxes of doughnuts were bought to distribute between the three Standard 5 classes.
 If each box contained 1 dozen doughnuts, how much doughnuts did each class receive? [1]

$$1 \text{ box} = 1 \text{ dozen doughnuts} = 12 \text{ doughnuts}$$

$$4 \text{ boxes} = 4 \times 12$$

$$= 48 \text{ doughnuts}$$

$$\text{Number of Standard 5 classes} = 3$$

$$\text{Number of doughnuts each class received} = \frac{\text{Total number of doughnuts}}{\text{Number of classes}}$$

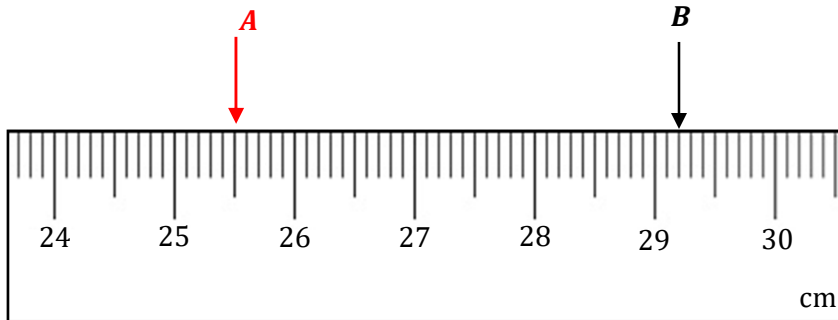
$$= \frac{48}{3}$$

$$= 16 \text{ doughnuts}$$

Answer _____ 16 _____ doughnuts

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11. Point **A** is 3.7 cm to the left of Point **B**. Draw an arrow to show the position of Point **A**. [1]



Position of Point **B** = 29.2 cm

Position of Point **A** = 29.2 cm - 3.7 cm
= 25.5 cm

12. Convert 3.65 hours to minutes. [1]

Separating the whole number and the decimal gives:

1 hour = 60 mins
3 hours = 3 × 60
= 180 mins

We need to convert the decimal to a fraction
Hundredths Column

$$0.65 = \frac{65}{100} = \frac{13}{20}$$

1 hour = 60 mins

$$\frac{13}{20} \text{ hour} = \frac{13}{20} \times 60$$

$$= 39 \text{ mins}$$

Therefore 3.65 hours = 180 mins + 39 mins
= 219 mins

Answer 219 minutes

13. An incomplete calendar is given below.

AUGUST						
Sun	Mon	Tues	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

What day of the week is the 3rd of September?

[1]

August has 31 days.

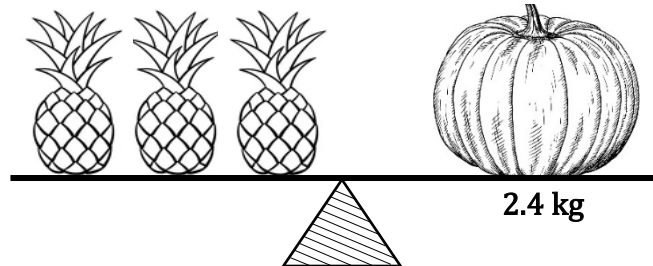
The 3rd of September is a Saturday.

Answer _____ Saturday _____

14. The objects shown below balance the scale.

What is the mass of each pineapple?

[1]



Mass of 3 pineapples = Mass of pumpkin

Mass of 3 pineapples = 2.4 kg

$$= 2.4 \times 1000$$

$$= 2400 \text{ g}$$

Mass of 1 pineapple = $\frac{2400}{3}$

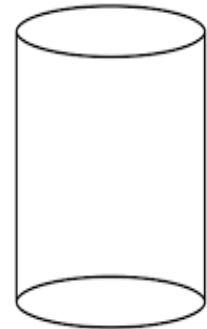
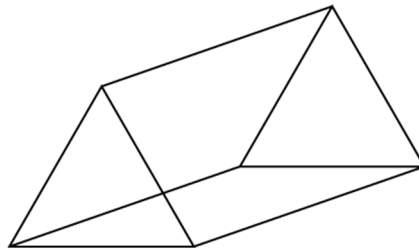
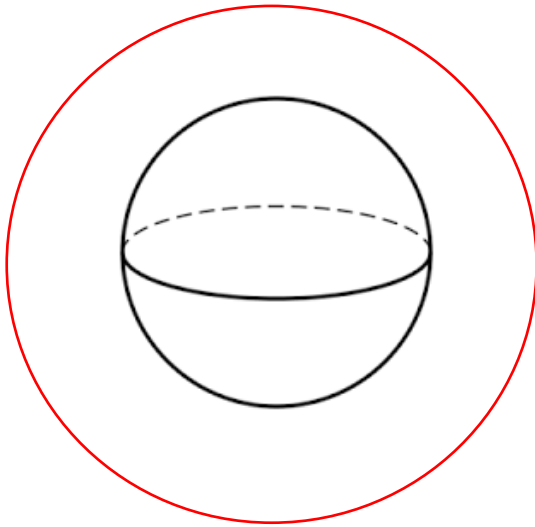
$$= 800 \text{ g}$$

Answer 800 g



15. Circle the solid that does **not** have a uniform cross-section.

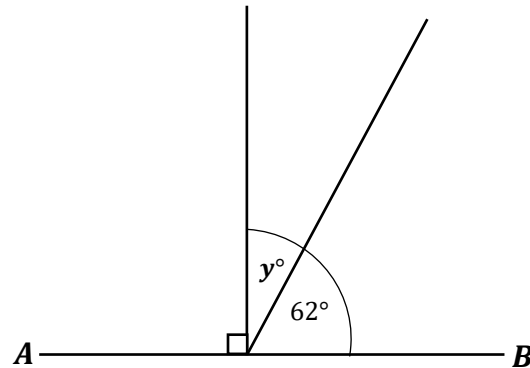
[1]



Both the triangular prism and cylinder do have a uniform cross-section.

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16. The diagram below shows three angles. **AB** is a straight line.



Calculate the value of y° .

[1]

$$\text{A straight line} = 180^\circ$$

$$\begin{aligned} \text{Angles accounted for in diagram} &= 90^\circ + 62^\circ \\ &= 152^\circ \end{aligned}$$

$$\begin{aligned} y &= 180^\circ - 152^\circ \\ &= 28^\circ \end{aligned}$$

Answer 28 °

17. The area of a square is 256 cm^2 . Calculate the length of ONE of its sides.

[1]

$$\text{Area of square} = 256 \text{ cm}^2$$

$$\text{Length of one side} = \sqrt{\text{Area of square}}$$

$$= \sqrt{256}$$

$$= 16 \text{ cm}$$

Answer _____ **16** _____ *cm*

18. The tally chart below shows the favourite movie of a class of 30 students.

Movie	Number of Students
Jurassic World	
Spiderman 3	
Minions: The Rise of Gru	
Avengers: Endgame	

Name the movie that represents the mode.

[1]

Modal means the one that occurs most often.

Based on the tally chart above, Avengers: Endgame represents the mode since it was the favourite movie of the largest number of students.

Answer _____ **Avengers: Endgame** _____

19. The mean of 7, 9 and 11 is the same as the mean of 13 and a .
What number does a represent?

[1]

$$\begin{aligned} \text{Sum of 7, 9 and 11} &= 7 + 9 + 11 \\ &= 27 \end{aligned}$$

$$\begin{aligned} \text{Mean of 7, 9 and 11} &= \frac{\text{Sum of 7,9 and 11}}{3} \\ &= \frac{27}{3} \\ &= 9 \end{aligned}$$





$$\begin{aligned} \text{Mean of 7, 9 and 11} &= \text{Mean of 13 and } a \\ \text{Mean of 13 and } a &= 9 \end{aligned}$$


$$\begin{aligned} 13 + a &= (\text{Mean of 13 and } a) \times 2 \\ &= (\text{Mean of 13 and } a) \times 2 \\ &= 9 \times 2 \\ &= 18 \end{aligned}$$

$$\begin{aligned} a &= 18 - 13 \\ &= 5 \end{aligned}$$

Answer 5

20. The pictograph below shows the preferred breakfast of 56 students.

Cereal	
Toast	
Doubles	
Oatmeal	

How many students does  represent?

[1]

Number of students = 56 students

Total number of  = 14

Number of students  represent = $\frac{56}{14}$
= 4 students

Answer 4 students

SECTION II

21. Siam puts three numbers in descending order.

A common fraction belonging to the eighths family is missing.

Write the missing fraction.

[2]

50%

0.35

The table below shows the eighths family.

Fraction	Decimal	Percentage
$\frac{1}{8}$	0.125	12.5%
$\frac{2}{8}$	0.25	25%
$\frac{3}{8}$	0.375	37.5%
$\frac{4}{8}$	0.50	50%
$\frac{5}{8}$	0.625	62.5%
$\frac{6}{8}$	0.75	75%
$\frac{7}{8}$	0.875	87.5%
$\frac{8}{8}$	1.00	100%

It can be seen that the fraction which is less than 50% but greater than 0.35 is $\frac{3}{8}$.

Answer $\frac{3}{8}$

22. Which two square numbers sum to 80?

[2]

The square numbers less than 80 include:

$$1^2 = 1$$

$$5^2 = 25$$

$$2^2 = 4$$

$$6^2 = 36$$

$$3^2 = 9$$

$$7^2 = 49$$

$$4^2 = 16$$

$$8^2 = 64$$

$$\text{Sum of } 4^2 + 8^2 = 16 + 64$$

$$= 80$$

Answer _____ 16 and 64 _____

23. $5\frac{1}{3} - 2\frac{7}{12} =$

[2]

Whole Numbers

Fractions

$$= 5 - 2$$

$$= \frac{1}{3} - \frac{7}{12}$$

$$= 3$$

$$= \frac{4 - 7}{12}$$

$$= 2\frac{12}{12}$$

+12

$$= \frac{(12 + 4) - 7}{12}$$

$$= 2$$

$$= \frac{16 - 7}{12}$$

$$= \frac{9}{12}$$

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

Answer _____ $2\frac{3}{4}$ _____

24. For every \$15.00 that Kimani saves, her cousin, Kyle saves \$18.00. At the end of three months, Kyle saved \$126.00. How much did Kimani save in the same time? [2]

$$\text{Total amount saved by Kyle} = \$126.00$$

$$\begin{aligned} \text{Number of times he saved } \$18.00 &= \frac{\$126}{\$18} \\ &= \frac{\$126}{\$18} \\ &= 7 \end{aligned}$$

$$\begin{aligned} \text{Amount saved by Kimani} &= 7 \times \$15.00 \\ &= \$105.00 \end{aligned}$$

Answer \$ 105

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25. A school has 189 boys and 252 girls. If 9 girls are added to the school, what percentage of the school will be girls? [2]

$$\text{Initial number of girls in school} = 252 \text{ girls}$$

$$\begin{aligned} \text{Final number of girls in school} &= 252 + 9 \\ &= 261 \text{ girls} \end{aligned}$$

$$\begin{aligned} \text{Initial number of students in school} &= 189 + 252 \\ &= 441 \text{ students} \end{aligned}$$

$$\begin{aligned} \text{Final number of students in school} &= 441 + 9 \\ &= 450 \text{ students} \end{aligned}$$

$$\begin{aligned} \text{Percentage of the school that will be girls} &= \frac{\text{Final number of girls in school}}{\text{Final number of students in school}} \times 100 \\ &= \frac{261}{450} \times 100 \\ &= 58\% \end{aligned}$$

Answer 58 %

26. The public library in San Fernando charges \$2.50 per book per day for returning books late. Halley paid \$50.00 for returning 5 books late. The books were all borrowed on the same day. Calculate the number of days the books were overdue. [2]

$$\text{Total late fee paid} = \$50.00$$

$$\text{Number of books} = 5$$

$$\begin{aligned} \text{Late fee paid per book} &= \$50.00 \div 5 \\ &= \$10.00 \end{aligned}$$

$$\text{Late fee per day} = \$2.50$$

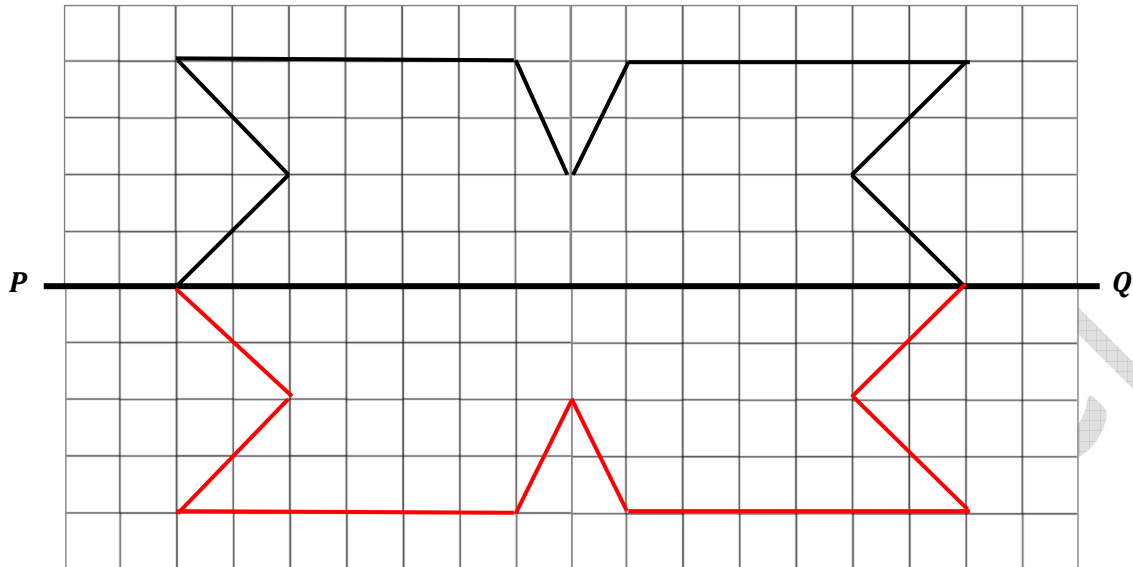
$$\begin{aligned} \text{Number of days each book was overdue} &= \frac{\text{Late fee paid per book}}{\text{Late fee per day}} \\ &= \frac{\$10.00}{\$2.50} \\ &= 4 \text{ days} \end{aligned}$$

Answer _____ 4 _____ days

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27. Complete the shape using PQ as the line of symmetry.

[2]



Kerwin Spring

28. Celine used 17 m of cloth to make shirts and pants for her son. She used 92 cm of cloth to make each pair of pants and 60 cm of cloth to make each shirt. She made an equal number of pants and shirts. If she has 28 cm remaining, how many pants and shirts did she make? [3]

$$\begin{aligned} \text{Total length of cloth} &= 17 \text{ m} \\ &= 1700 \text{ cm} \end{aligned}$$

$$\text{Remaining cloth} = 28 \text{ cm}$$

$$\begin{aligned} \text{Length of cloth that was used} &= 1700 - 28 \\ &= 1672 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{Length of cloth needed to make BOTH a pair of pants and a shirt} &= 92 + 60 \\ &= 152 \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{Number of pants and shirts made} &= \frac{\text{Length of cloth that was used}}{\text{Length of cloth needed to make BOTH a pair of pants and a shirt}} \\ &= \frac{1672}{152} \end{aligned}$$

$$\text{Number of pants and shirts made} = 11 \text{ pairs of pants and 11 shirts}$$

Answer 11 pairs of pants and 11 shirts

29. The signs below were displayed by two market vendors.

<p>Mr. Wilson's</p> <p>Tomatoes</p> <p>\$31.50 per 750 g</p>
--

<p>Mr. Hernandez's</p> <p>Tomatoes</p> <p>\$10.00 per $\frac{1}{4}$ kg</p>

(a) What will be the cost of 1 kg of Mr. Wilson's tomatoes? [2]

$$750 \text{ g of Mr. Wilson's tomatoes} = \$31.50$$

$$1 \text{ kg} = 1000 \text{ g}$$

$$1000 \text{ g of Mr. Wilson's tomatoes} = \frac{1000}{750} \times \$31.50$$

$$= \$42.00$$

Answer \$ 42

(b) Which market vendor is selling their tomatoes at a cheaper price? [1]

$$1 \text{ kg of Mr. Wilson's tomatoes} = \$42.00$$

$$\frac{1}{4} \text{ kg of Mr. Hernandez's tomatoes} = \$10.00$$

$$1 \text{ kg of Mr. Hernandez's tomatoes} = \frac{4}{1} \times \$10.00$$

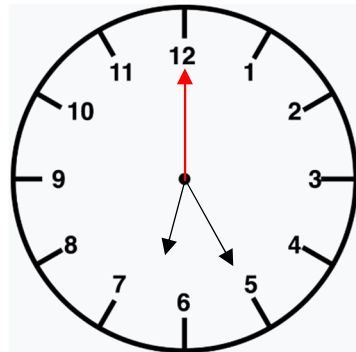
$$= \$40.00$$

Answer Mr. Hernandez

30. Atiya left work at the time shown on the clock below. She arrived at home 35 minutes later.

- (a) On the same clock, draw the new position of the minute hand when she arrived at home.

[1]



The time shown on the clock is 6:25.

$$\begin{aligned} \text{Time Atiya arrived home} &= 6:25 + 0:35 \\ &= 7:00 \end{aligned}$$

- (b) Through what angle did the minute hand turn?

[2]

A circle has 360° .

The circle is divided equally into twelve angles at the centre.

$$\begin{aligned} \text{Angle between any 2 numbers next to each other} &= \frac{360^\circ}{12} \\ &= 30^\circ \end{aligned}$$

The number of 30° angles between 5 and 12 on the clock above is 7.

$$\begin{aligned} \text{Therefore, angle the minute hand turned} &= 30^\circ \times 7 \\ &= 210^\circ \end{aligned}$$

Answer _____ **210** _____ degrees

31. Crissa bought an iPad for \$3000 and later resold it to Shinia for \$3550.

(a) What was the percentage profit on the sale?

[2]

$$\text{Cost Price of iPad} = \$3000$$

$$\text{Selling Price of iPad} = \$3550$$

$$\text{Profit} = \text{Selling Price} - \text{Cost Price}$$

$$= \$3550 - \$3000$$

$$= \$550$$

$$\text{Percentage profit} = \frac{\text{Profit}}{\text{Cost Price}} \times 100$$

$$= \frac{550}{3000} \times 100$$

$$= 18\frac{1}{3}\%$$

Answer $18\frac{1}{3}$ %

(b) If Shinia negotiated a discount of 20%, calculate the value of the discount she received.

[1]

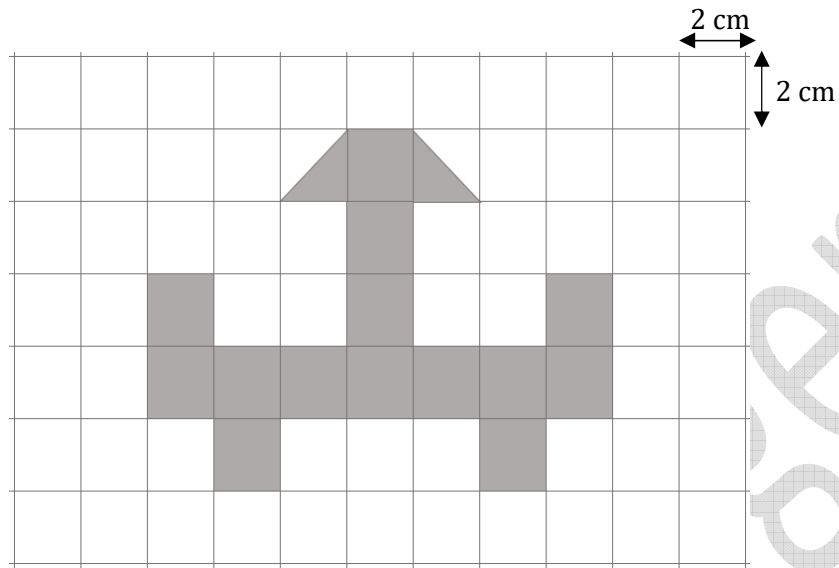
$$\text{Value of discount} = \frac{20}{100} \times \$3550$$

$$= \$710$$

Answer \$ 710

32. What is the area of the shaded figure?

[3]



$$\begin{aligned} \text{Area of 1 square} &= 2 \times 2 \\ &= 4 \text{ cm}^2 \end{aligned}$$

Number of squares in shaded figure = 15 squares

Area of shaded figure = Number of squares in shaded figure \times Area of 1 square

$$\text{Area of shaded figure} = 15 \times 4 \text{ cm}^2$$

$$\text{Area of shaded figure} = 60 \text{ cm}^2$$

Answer 60 cm^2

33. Faith and her 5 cousins decided to go to MovieTowne. Each cousin spent \$50.00 on a movie ticket. They met 3 friends and bought popcorn for everyone at \$12.50 each.

What was the total amount of money spent?

[2]

Number of movie tickets bought = Faith + 5 cousins

$$= 1 + 5$$

$$= 6 \text{ movie tickets}$$

One movie ticket cost \$50.00.

Cost of 6 movie tickets = $6 \times \$50.00$

$$= \$300.00$$

Number of popcorns bought = $6 + 3$

$$= 9 \text{ popcorns}$$

One popcorn cost \$12.50.

Cost of 9 popcorns = $9 \times \$12.50$

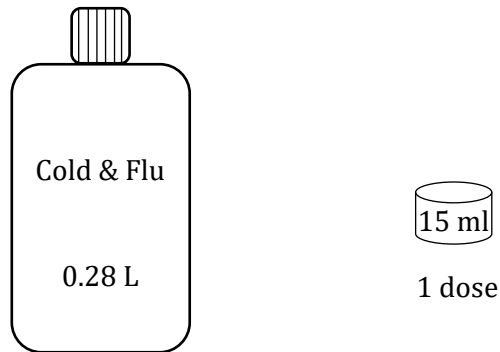
$$= \$112.50$$

Total amount of money spent = $\$300.00 + \112.50

$$= \$412.50$$

Answer \$ _____ **412.50** _____

34. The diagram below shows a bottle of flu medication and a dosage cup.



Jonathon was instructed by his doctor to take 3 doses per day for 5 days.

If each dose is 15ml, how many millilitres of the flu medication was there remaining in the bottle after the 5 days had elapsed? [2]

$$\text{Volume of flu medication in bottle} = 0.28 \text{ L} = 280 \text{ ml}$$

$$\text{Volume of each dose} = 15 \text{ ml}$$

$$\text{Number of doses per day} = 3$$

$$\text{Number of doses taken in 5 days} = 3 \times 5$$

$$\text{Number of doses taken in 5 days} = 15 \text{ doses}$$

$$\text{Volume of 15 doses taken in 5 days} = \text{Volume of each dose} \times 15$$

$$= 15 \times 15$$

$$= 225 \text{ ml}$$

$$\text{Volume of flu medication remaining in the bottle} = 280 - 225$$

$$= 55 \text{ ml}$$

Answer _____ **55** _____ millilitres

35. Complete the table below.

[3]

Solid	Number of Faces	Number of Edges	Number of Vertices
Cylinder	3	___ 2 ___	0
___ Sphere ___	1	0	0
Triangular Prism	5	9	___ 6 ___

Kerwin Sp...

36. Rainfall was recorded in Trinidad for 5 days as shown in the table below.

Day	1	2	3	4	5
Rainfall (mm)	225	190	240	235	205

If the average rainfall was 220 mm at the end of day 6, how many millimetres of rain fell on Day 6? [3]

$$\text{Average rainfall at end of Day 6} = 220 \text{ mm}$$

$$\begin{aligned} \text{Total rainfall for 6 days} &= \text{Average rainfall at end of Day 6} \times 6 \\ &= 220 \times 6 \\ &= 1320 \text{ mm} \end{aligned}$$

$$\begin{aligned} \text{Total rainfall for 5 days} &= 225 + 190 + 240 + 235 + 205 \\ &= 1095 \text{ mm} \end{aligned}$$

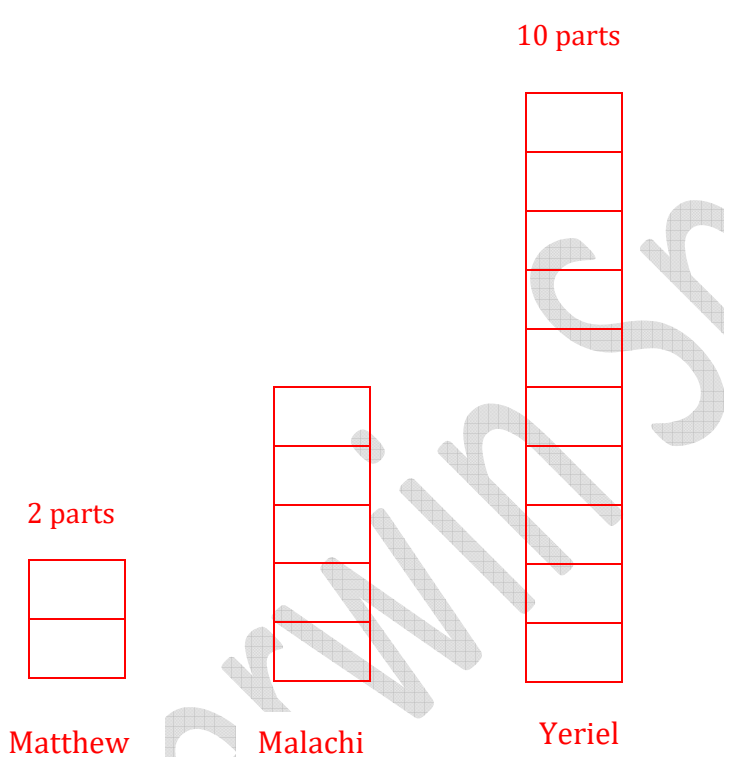
$$\begin{aligned} \text{Therefore, Day 6 rainfall} &= \text{Total rainfall for 6 days} - \text{Total rainfall for 5 days} \\ &= 1320 - 1095 \\ &= 225 \text{ mm} \end{aligned}$$

Answer _____ 225 _____ mm

SECTION III

37. Malachi has 50% of the amount of Roblox points Yeriel has, and Matthew has $\frac{2}{5}$ of the amount of Roblox points Malachi has. If Yeriel has 2248 more Roblox points than Matthew, how many Roblox points does Malachi have? [4]

$$50\% = \frac{1}{2}$$



$$\text{Matthew} = 2 \text{ parts}$$

$$\text{Yeriel} = 10 \text{ parts}$$

We know Yeriel has 2248 more Roblox points than Matthew.

$$10 \text{ parts} - 2 \text{ parts} = 2248 \text{ Roblox points}$$

$$8 \text{ parts} = 2248 \text{ Roblox points}$$

$$1 \text{ part} = \frac{2248}{8}$$

$$= 281 \text{ Roblox points}$$

$$\begin{aligned} \text{Number of Roblox points Malachi has} &= 5 \times 281 \\ &= 1405 \text{ Roblox points} \end{aligned}$$

Answer _____ 1405 _____ points

38. In ONE day Patricia's bakery produces 45 loaves of bread, while Jamie's bakery produces 12 **more** loaves of bread than Patricia's bakery.

(a) How many loaves of bread did BOTH bakeries produce in one day? [1]

No. of loaves produced by Patricia's bakery in one day = 45 loaves

No. of loaves produced by Jamie's bakery in one day = $45 + 12$
= 57 loaves

No. of loaves BOTH bakeries produced in 1 day = $45 + 57$
= 102 loaves

Answer _____ **102** _____ loaves of bread

(b) Both bakeries operate 6 days per week.

How many more loaves of bread were produced by Jamie's bakery than by Patricia's bakery in 1 week? [2]

No. of days in 1 week = 6 days

No. of loaves produced by Patricia's bakery in 1 day = 45 loaves

No. of loaves produced by Patricia's bakery in 6 days = 45×6
= 270 loaves

No. of loaves produced by Jamie's bakery in 1 day = 57 loaves

No. of loaves produced by Jamie's bakery in 6 days = 57×6
= 342 loaves

Difference = $342 - 270$
= 72 loaves

Answer _____ **72** _____ loaves of bread

- (c) Both bakeries produced a total of 816 loaves of bread. How many days did it take them to do so? [1]

Total number of loaves produced by both bakeries = 816 loaves

No. of loaves BOTH bakeries produce in 1 day = 102 loaves

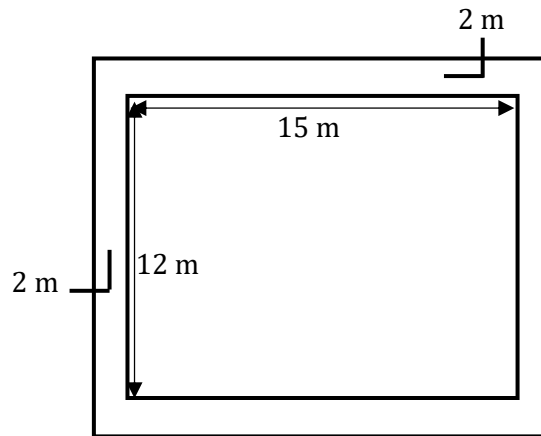
No. of days taken to produce 816 loaves = $\frac{816}{102}$

= 8 days

Answer _____ 8 _____ days

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39. The diagram below shows a garden with a 2 m wide path.



(a) Calculate the perimeter of the garden.

[1]

$$\begin{aligned}
 \text{Perimeter of garden} &= (L + W) \times 2 \\
 &= (15 + 12) \times 2 \\
 &= 27 \times 2 \\
 &= 54 \text{ m}
 \end{aligned}$$

Answer 54 m

(b) Calculate the area of the path.

[3]

$$\begin{aligned}
 \text{Length of the enclosed garden} &= (\text{Length of garden} + 2 + 2) \text{ m} \\
 &= (15 + 2 + 2) \text{ m} \\
 &= 19 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 \text{Width of the enclosed garden} &= (\text{Width of garden} + 2 + 2) \text{ m} \\
 &= (12 + 2 + 2) \text{ m} \\
 &= 16 \text{ m}
 \end{aligned}$$

$$\begin{aligned}\text{Area of enclosed garden} &= \text{Length} \times \text{Width} \\ &= 19 \times 16 \\ &= 304 \text{ m}^2\end{aligned}$$

$$\begin{aligned}\text{Area of garden} &= \text{Length} \times \text{Width} \\ &= 15 \times 12 \\ &= 180 \text{ m}^2\end{aligned}$$

$$\begin{aligned}\text{Area of path} &= \text{Area of enclosed garden} - \text{Area of garden} \\ &= 304 \text{ m}^2 - 180 \text{ m}^2 \\ &= 124 \text{ m}^2\end{aligned}$$

Answer _____ **124** _____ m^2

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40.

PEN SALE



Each pen costs \$15. Jaylon purchased \$120.00 worth of pens.

(a) How many free pens did he get?

[1]

$$\text{Amount Jaylon spent} = \$120.00$$

$$\text{Cost of 1 pen} = \$15.00$$

$$\begin{aligned} \text{Number of pens purchased by Jaylon} &= \frac{\text{Amount Jaylon spent}}{\text{Cost of 1 pen}} \\ &= \frac{\$120.00}{\$15.00} \\ &= 8 \text{ pens} \end{aligned}$$

If after every 4 pens purchased 1 pen is given free:

$$\begin{aligned} \text{Number of free pens Jaylon received} &= 8 \div 4 \\ &= 2 \text{ pens} \end{aligned}$$

Answer 2 pens

(b) How many pens did he get altogether for his \$120.00?

[1]

Number of pens Jaylon purchased with \$120.00 = 8 pens

Number of pens Jaylon received for free = 2 pens

Total number of pens Jaylon got = $8 + 2$
= 10 pens

Answer _____ 10 _____ pens

(c) Jaylon's friend, Avery, also purchased the pens that were on sale.

He received 35 pens altogether. How much money did he spend?

[2]

Total number of pens Avery received = 35 pens

No. of pens received every time 4 pens are bought = 4 pens + 1 free pen
= 5 pens

Groups of 4 pens bought by Avery = $\frac{\text{Total number of pens Avery received}}{\text{No. of pens received every time 4 pens are bought}}$
= $\frac{35}{5}$
= 7 groups

Therefore, number of pens bought by Avery = 7×4
= 28 pens

One pen cost \$15.

Money spent by Avery = $28 \times \$15$
= \$420

Answer \$ _____ 420 _____