BEDOK SOUTH SECONDARY SCHOOL
END-OF-YEAR EXAMINATION 2023

1EXP

CANDIDATE NAME

CLASS

REGISTER NUMBER

MATHEMATICS

4052/01
10 Oct 2023

Candidates answer on the Question Booklet.
No Additional Materials are needed

1 hour

READ THESE INSTRUCTIONS FIRST

Write your name, class and index number on ***all*** the work you hand in.

Write in ***dark blue*** or ***black*** pen on both sides of the paper.

You may use a HB ***pencil*** for any ***diagrams*** or ***graphs***.

Do **not** use staples, paper clips, highlighters, glue or correction fluid.

Answer ***all questions***.

Write your answers and working on the spaces provided.

Show all your working on the ***same page*** as the rest of the answer.

The use of an ***electronic calculator*** is ***NOT ALLOWED.***

Omission of essential working will result in loss of marks.

You are reminded of the need for ***clear presentation*** in your answers.

The number of marks is given in brackets [ ] at the end of each question or part question.

The total of the marks for this paper is **40**.

Examiner's Use			
Penalty	**Question No.**		
Units			Marks −1 −2
Accuracy			
Presentation			
Sub Total		**Total**	**40**

Answer ALL Questions

1 Given a set of numbers,

$$\frac{2}{7},\ \sqrt{-2},\ \pi,\ 1.2222\ldots,\ -5.6$$

list **all** the

(a) real numbers,

(b) irrational number(s).

Answer: (a) ..... [1]

(b) ..... [1]

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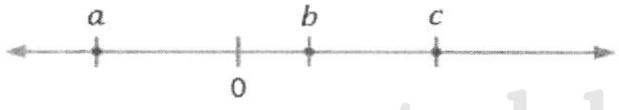
2 Observe the following numbers a, b and c on the number line below.
Determine whether the following expressions are positive or negative.
Explain your answer in words.



(a) $\frac{a}{b}$ (b) $\frac{a^2}{\sqrt{c}}$

Answer:

(a).....

..... [1]

(b).....

..... [2]

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3 Evaluate $\frac{5}{8} \times (-1\frac{1}{2})^3 \div (-\frac{3}{8})$ without using calculator.

Answer: ..... [3]

4 Find

(a) the square of $7^6 \times 19^3$.

(b) the cube root of the answer in **(a).**

Leave your answers in index notation.

Answer: (a) ..... [1]

(b) ..... [1]

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5 (a) Simplify $\frac{5(3n-4.5)}{3} - \frac{-(2n+9)}{2}$.

Answer: (a) ..... [3]

(b) Hence show that $\frac{5(3n-4.5)}{3} - \frac{-(2n+9)}{2}$ is a multiple of 3 for all positive integers n.

Answer: (b) *working shown above* [1]

6 A student solved the following equation to find the value of x, where a is a constant.

Step 1: $\frac{x+1}{2} + \frac{x-a}{3} = 1$

Step 2: $\frac{3(x+1)}{6} + \frac{2(x-a)}{6} = 1$

Step 3: $3(x+1) + 2(x-a) = 1$

Step 4: $3x + 3 + 2x - a = 1$

Step 5: $5x = a - 2$

Step 6: $x = \frac{a-2}{5}$

(a) Identify the steps where the errors occur and show the correct working below.

[3]

(b) If the solution of the equation is $x = 2$, find the value of a.

Answer: (b) a = ... [1]

7 Singapore and Melaka, Malaysia are 360 km apart. A man took 2 hours to drive to a rest stop and took a 30-min break. He then took another 1½ hours to reach Melaka. He used up 20 litres of petrol for the journey.
Find
(a) his average speed for the journey,
(b) the petrol consumption rate in *km/l*.

Answer: (a) ..... [1]

(b) ..... [1]

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8 Mr Tan's monthly salary is $\$3x$. Mrs Tan's monthly salary is \$600 more than Mr Tan's. Their son's monthly salary is two-thirds of Mrs. Tan's.

(a) Write down an expression for Mrs Tan's monthly salary in terms of x.
(b) Express their son's monthly salary in terms of x.
(c) If the sum of their monthly salaries is \$10600, find the monthly salary of Mr Tan.

Answer: (a) ..... [1]

(b) ..... [1]

(c) ..... [2]

9 (a) Express the following as a single fraction in its simplest form.

$$\frac{3(t-1)}{2}+\frac{5(t+3)}{3}$$

Answer: (a) ..... [3]

(b) Factorise the following expressions completely.
Simplify the expression first if necessary.

(i) $3ax-6ay+21a$

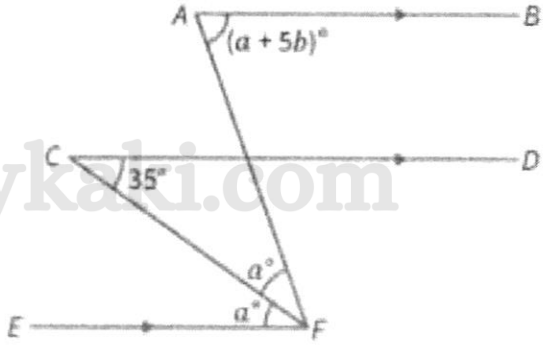
(ii) $6(kt-3d)-2(2kt-6d)$

Answer: (b) (i)..... [1]

(ii)..... [2]

10 In the diagram, $AB // CD // EF$ and $\angle DCF = 35°$.

Find the values of a and b. Write the mathematical statements clearly.



Answer: $a =$ ……$b =$ …… [3]

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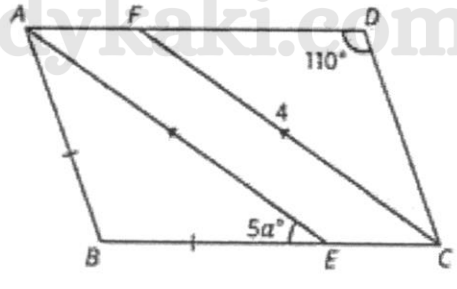
11 The diagram shows a parallelogram $ABCD$. Points E and F lie on BC and AD respectively such that $CF // EA$, $BA = BE$, $\angle ADC = 110°$ and $\angle AEB = 5a°$.

(a) Find the value of a.

(b) Is $ABCF$ a trapezium? Explain with reasons.



Answer (a) …… [2]

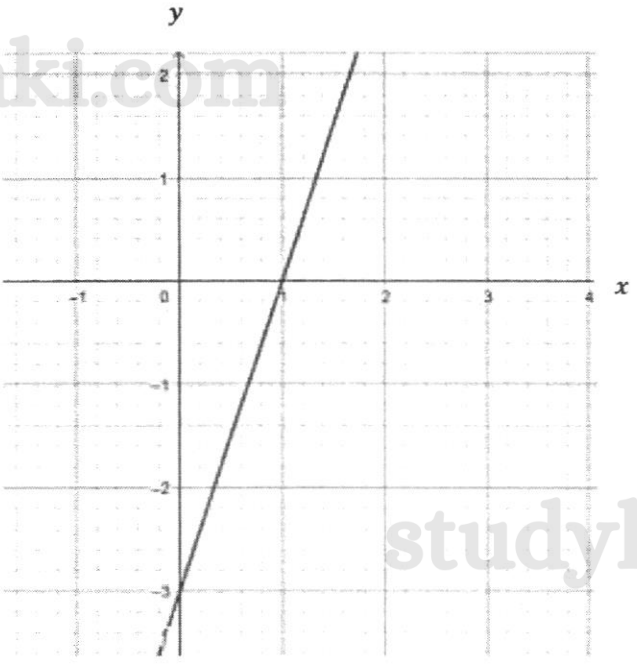
(b)……

…… [1]

12 The diagram shows the graph of a function y against x.

(a) The points $(0, a)$ and $(b, 0)$ lie on the graph. Use the graph to find the values of $\boldsymbol{a}$ and $\boldsymbol{b}$.

(b) Write down the equation of the graph in the form of $y = mx + c$.



Answer: (a) a =.....; b=..... [2]

(b) ..... [2]

End of Paper

BEDOK SOUTH SECONDARY SCHOOL
END-OF-YEAR EXAMINATION 2023

1EXP

CANDIDATE NAME

CLASS | REGISTER NUMBER

MATHEMATICS

4052/02
03 Oct 2023

Candidates answer on the Question Booklet.
Additional Materials: Nil

1 hr 30 min

READ THESE INSTRUCTIONS FIRST

Write your name, class and index number on ***all*** the work you hand in.

Write in ***dark blue*** or ***black*** pen on both sides of the paper.

You may use a soft ***pencil*** for any ***diagrams*** or ***graphs***.

Do **not** use staples, paper clips, highlighters, glue or correction fluid.

Answer ***all questions***.

Write your answers and working on the spaces provided.

Give non-exact numerical answers correct to ***3 significant figures*** or ***1 decimal place*** in the case of angles in degrees, unless a different level of accuracy is specified in the question.

For π, use your calculator value or 3.142.

The use of an ***electronic calculator*** is ***allowed.***

Show all your working on the ***same page*** as the rest of the answer.

Omission of essential working will result in loss of marks.

You are reminded of the need for ***clear presentation*** in your answers.

The number of marks is given in brackets [ ] at the end of each question or part question.

The total of the marks for this paper is **60**.

Examiner's Use			
Penalty	**Question No.**		
Units			Marks −1 −2
Accuracy			
Presentation			
Sub Total		**Total**	60

Answer ALL Questions

1 (a) Simplify each of the following ratios.

(i) $a : b = \frac{2}{5} : 2\frac{2}{5}$

(ii) $b : c = 0.70 : 0.350$

(b) Hence find the ratio $a : b : c$.

(c) Al, Bo and Kat share \$590 in the ratio 7: 12 : 40.
Find Al's share of the money.

Answer: (a) (i)..... [1]

(ii)..... [1]

(b) ..... [1]

(c) ..... [2]

2 The maximum load of a cargo lift is 400 kg. There are five boxes whose masses in kg are 76.8, 81.4, 75.3, 81.8 and 86.4.

(a) Estimate the total mass of the five boxes by rounding off each mass to one significant figure.

(b) Based on the estimation in **(a)** and the maximum load of the lift, is it safe to transport all these boxes at the same time?

(c) Verify your answer in **(b)** by calculating the **actual** total mass of all five boxes. Explain if your estimation in **(a)** was a good and credible method. If not, how can it be improved?

Answer: (a) ..... [2]

(b)..... [1]

(c).....

..... [2]

3 Mrs Tan has some money to buy fruits. She can buy n mangoes at \$1.60 each and have 80 cents left. Alternatively, she can buy $(n+10)$ apples at \$0.70 each and have 10 cents left.

(a) By forming an equation in n, solve and show that $n = 7$.
(b) How much money does Mrs Tan have for buying fruits?
(c) If Mrs Tan buys 3 mangoes and uses the rest of the money to buy apples, how many apples can she buy?

Answer: (a) n =..... [3]

(b) \$ ..... [1]

(c) .....apples [2]

4 At a food centre, there are three drink stalls. On a certain day, Stall **A** sold 175 glasses out of 200 glasses of iced milo, Stall **B** sold 85% of its 220 glasses of iced milo and Stall **C** sold 180 glasses of iced milo which was 80% of its total number of glasses of iced milo.

(a) Which stall sold the greatest number of glasses of drinks? How many glasses were sold?

(b) Which stall sold the highest percentage of its glasses of drinks? What was its percentage?

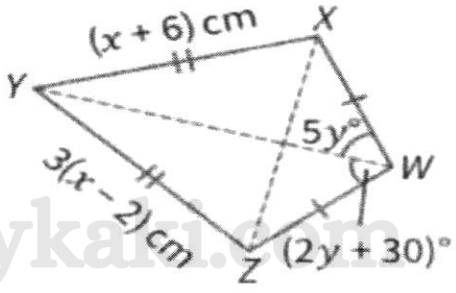
(c) Which stall prepared the most glasses of drinks? What was its number?

Answer: (a) *Stall ……; ……glasses* [1]

(b) *Stall ……; ……%* [1]

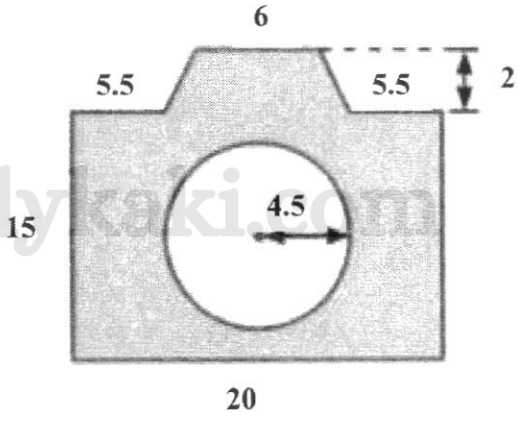
(c) *Stall ……; …… glasses* [1]

5 (a) In this kite, $WX = WZ$, $XY = YZ$ and WY bisects $\angle XWZ$. Find the values of x and y.



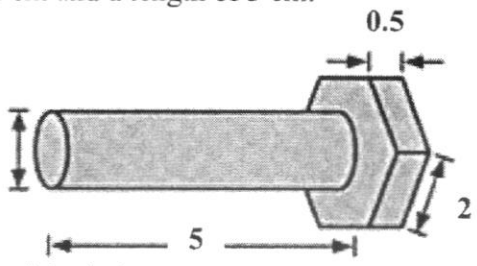
Answer: (a) x= .....; y =..... [3]

(b) In the diagram, a cross-section of a camera is shown. All measurements are in centimetres. Find the area of the shaded region in square centimetres.
Take $\pi = 3.142$.



Answer: (b) *Area* =..... [3]

6 The diagram shows a bolt which has a hexagonal head and a cylindrical body.
The hexagonal head is a prism of base area 10.4 cm^2 and thickness of 0.5 cm.
Th length of each side of the hexagon is 2 cm.
The cylindrical body has a diameter of 2 cm and a length of 5 cm.



(a) Taking $\pi = 3.142$, find the volume of the bolt,

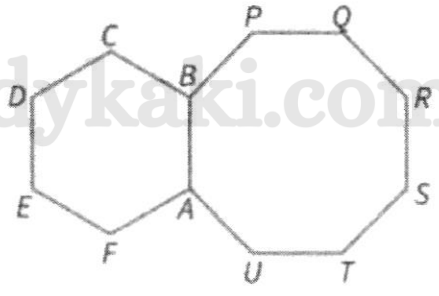
Answer: (a) ..... [3]

Answer: (a) _____

(b) the total surface area of the bolt.

Answer: (b) ..... [5]

7 The diagram shows a regular hexagon *ABCDEF* and a regular octagon *ABPQRSTU*.
Find
(a) $\angle CBP$,
(b) $\angle CAP$.



Answer (a) ..... [2]

(b) ..... [2]

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8 (a) The lengths of three sides of an isosceles ΔABC are $\boldsymbol{x}$ cm, $\boldsymbol{y}$ cm and $\boldsymbol{z}$ cm.
Given that $\boldsymbol{x}$ is an odd prime integer, $\boldsymbol{y}$ is a whole number yet it is not a prime nor a composite number, and $5(z+1)-3(z-2)=21$,
Find the values for $\boldsymbol{x}$, $\boldsymbol{y}$ and $\boldsymbol{z}$.

Answer: (a) x =..... ; y =..... ; z =.... [3]

(b) Construct a ΔPQR, in which $\angle QPR = 45°$, $PR = 4$ cm and $PQ = 5.5$ cm.

(i) Construct the ΔPQR. The point P has been drawn for you.

P [3]

(ii) Measure $\angle PRQ$ and name the type of triangle ΔPQR is.

Answer: $\angle PRQ$ = ...°;

ΔPQR *is a*..... [2]

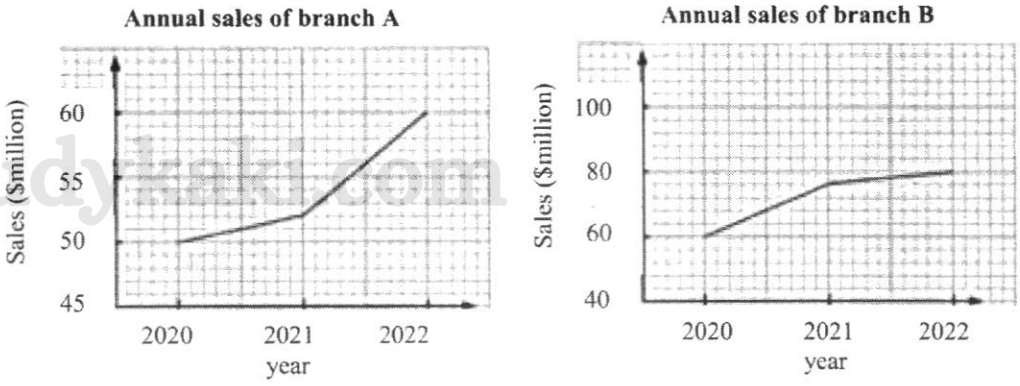
(iii) Does ΔPQR have a line of symmetry? If there is, draw and label the line of symmetry line with a dashed line (---------).

Answer: (iii) *as shown above* [1]

(iv) Indicate how many rotational symmetries ΔPQR has.

Answer: (iv) rotational symmetry =..... [1]

9 Two branch managers of a fast-food chain called Super Juicy Chicken (SJC) presented the following line graphs showing the annual sales of their fried-chicken.



(a) The manager of branch A claims that his store had a higher percentage increase in sales compared to branch B from 2020 to 2022. Do you think his claim is correct? Explain your answer by showing calculations to support your explanation.

(b) Explain what could be done to the graphs to better compare the sales of both branches more effectively.

Answer:

(a) .....
.....
.....
.....
.....
..... [3]

(b).....
.....
..... [2]

10 **Answer the whole question on a piece of graph paper.**

A piece of fish is kept in a refrigerator. Its temperature, y °C, at time t hours is given by this equation $y = 20 - 4t$ for $0 \leq t \leq 6$.

The following table of values was recorded during the experiment:

t (hours)	0	1	2	4	6
y (temperature °C)	20	16	$\boldsymbol{q}$	4	−4

(a) Find the value of $\boldsymbol{q}$.

(b) Using a scale of 2 cm to 1 unit on the horizontal x-axis and 2 cm to 2 units on the vertical y-axis, draw the graph of $y = 20 - 4t$ for $0 \leq t \leq 6$.

(c) State the gradient of the graph and explain what the value of the gradient means.

(d) Use the graph to find out the number of hours it takes for the temperature of the fish to reach the freezing point.

(e) What does the constant term, 20, in the equation represent?

Answer: (a) q = ... [1]

(b) *Graph paper next page* [3]

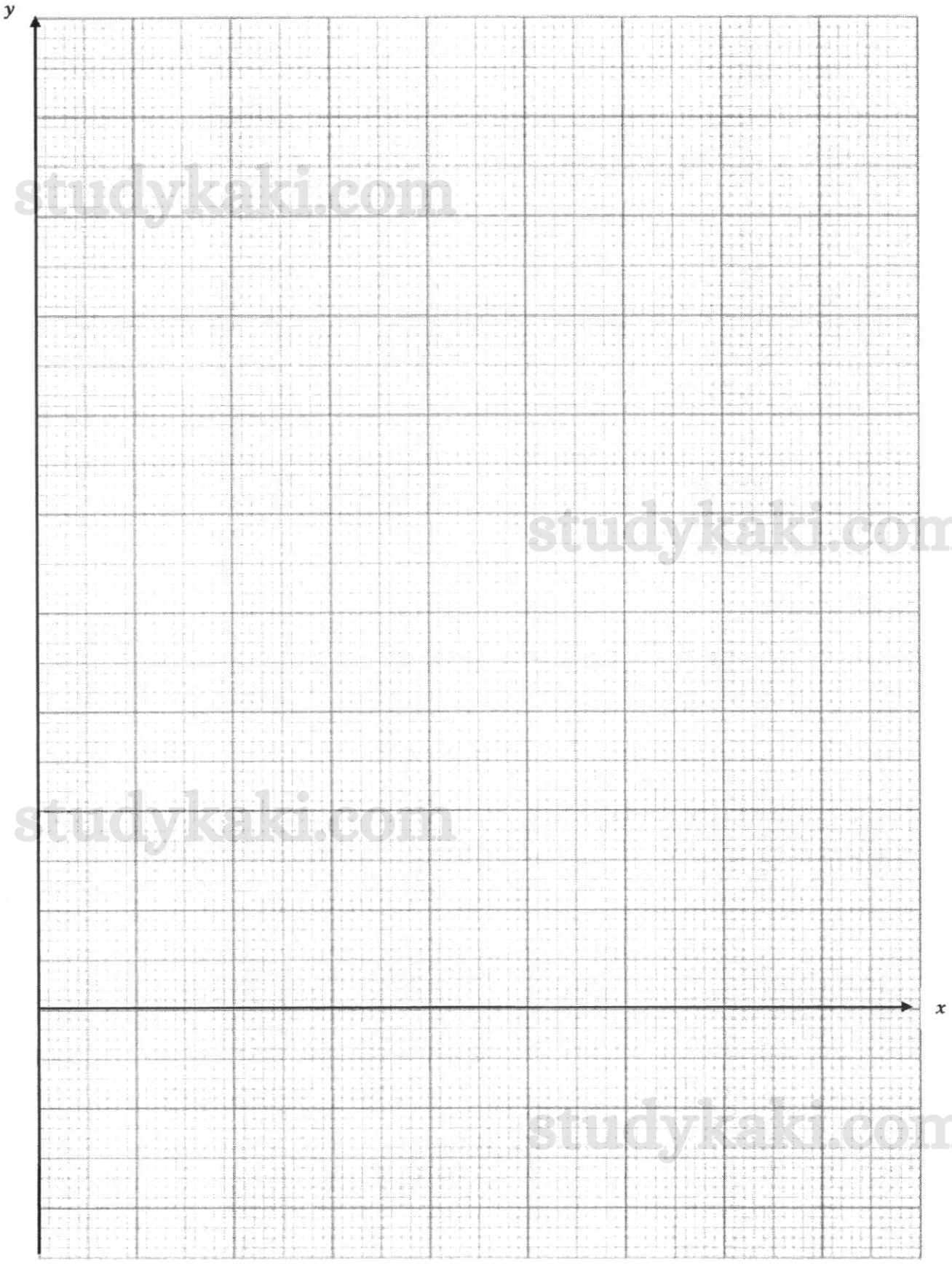
(c) gradient is .....and this value means that .....

..... [2]

(d) t = ...hours [1]

(e) .....

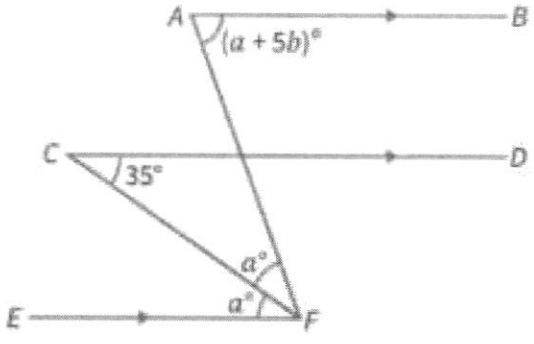
..... [1]

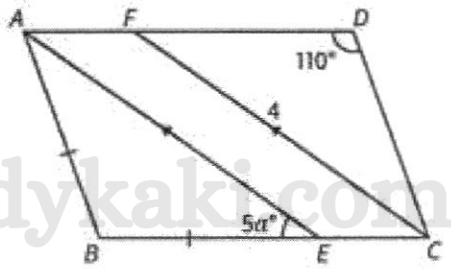
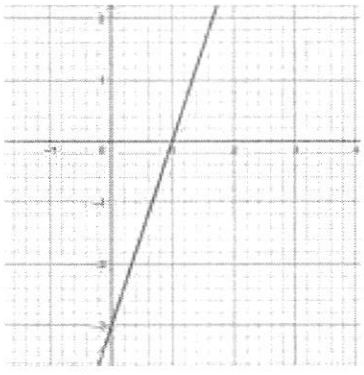


EM1 EOY P1 2023 Answer Scheme

Qns	Mark scheme	Marks/remarks	
1a	$\frac{2}{7}$, -5.6, π, 1.2222	[B1] Award B1 only when all are written	
1b	π,	[B1]	
2a	(a) $\frac{a}{b}$ A **negative integer** because a is -ve but b is +ve. A-ve number divide by +ve number gives a -ve value.	B1	
2b	(b) $\frac{a^2}{\sqrt{c}}$ a is -ve but when it is squared, a^2 becomes +ve, c is positive and when square rooted, is still +ve, so +ve divided by +ve gives **+ve integer**.	B1 B2	
3	$\frac{5}{8} \times (-\frac{3}{2})^3 \div (-\frac{3}{8})$ $= \frac{5}{8} \times \left(-\frac{27}{8}\right) \times \left(-\frac{8}{3}\right)$ (for finding cube and 'flip' the fract) $= \frac{5}{8} \times 9$ (for simplifying) $= \frac{45}{8}$ $= 5\frac{5}{8}$	[M1] [M1] [A1]	Award B1 if answer is given without working
4a	$(7^6 \times 19^3)^2$ = $7^{12} \times 19^6$	B1	
4b	$3\sqrt{7^{12} \times 19^6}$ = $7^4 \times 19^2$	B1	
5a	$\frac{10(3n-4.5)}{6} - \frac{-3(2n+9)}{6}$ (Common Denominator) $= \frac{10(3n-4.5)+3(2n+9)}{6}$ $= \frac{30n-45+6n+27}{6}$ (Combined into 1 equation with changed sign (-) to (+)) $= \frac{36n-18}{6}$ $= \frac{6(6n-3)}{6}$ (correct simplification) Or = $6n - 3$	either step = [M1] [M1] [A1]	

5b	$\frac{6(6n-3)}{6}$ or $6n-3$ $= 3(2n-1)$ shown! (Factorise obtained expression with multiple of 3)	[M1] No need statement.	
6a	Step 3: $3(x+1)+2(x-a)=6$ (denominator 6, RHS × 6) Step 4: $3x+3+2x-2a=6$ (expansion) Step 5: $5x=3+2a$ (simplification) Or Step 6: $x=\frac{3+2a}{5}$ (isolate x)	[M1] [M1] [M1] for either step 5 or step 6	
6b	$2=\frac{3+2a}{5}$ (correct substitution) $10=3+2a$ $a=3.5$	[M1] ecf [A1] Award [B1] only if answer obtained without working	
7a	Average speed = total dist/total time = 360/4 = 90 km/h	Overall, penalise unit (U) one time for entire qns A1	
7b	Petrol consumption = 360 km/ 20 l = 18 km/l	A1	
8a	Mrs Tan: $\$(600+3x)$	B1	
8b	Son: $\frac{2}{3}(600+3x)$ or $(400+2x)$	B1	
8c	$3x+600+3x+\frac{2}{3}(600+3x)=10600$ $6x+600+400+2x=10600$ $8x=10600-1000$ $8x=9600$ $x=1200$ Mr Tan earns \$3600	Ecf considered M1 A1 Penalise unit (U) one time for entire qns. Penalise presentation (P) if not using whole equation to solve. E.g. deconstructed into various steps	

9a	$\frac{3(t-1)}{2}+\frac{5(t+3)}{3}$ $=\frac{9(t-1)}{6}+\frac{10(t+3)}{6}$ (common denominator) $=\frac{9(t-1)+10(t+3)}{6}$ $=\frac{9t-9+10t+30}{6}$ (expansion) $=\frac{19t+21}{6}$ (simplification)	 M1 M1 A1
9b	(i) $3ax-6ay+21a$ $=3a(x-2y+7)$ (ii) $6(kt-3d)-2(2kt-6d)$ $=6(kt-3d)-4(kt-3d)$ $=2(kt-3d)$	 B1 M1 A1
10	 $\angle DCF = \angle EFC$ *(alt ∠, EF//CD)* $a° = 35°$ $\angle EFA = \angle FAB = 70°$ *(alt ∠, EF//AB)* $(a + 5b) = 70$ $35 + 5b = 70$ $5b = 35$ $b = 7$	 B1 Penalise presentation (P) for missing maths property in entire qns M1 A1

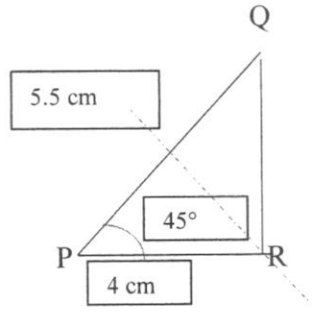
11a	 $\angle ABE = 110°$ (opp angles of parallelogram) $5a = (180 - 110) \div 2 = 35$ (base $\angle$of isos Δ) $a = 7$	Penalise under presentation (P) if missing maths property M1 A1
11b	ABCF is a trapezium because there is one pair of parallel line AF//BC only in the quadrilateral.	B1
12a	$(0, a)$ and $(b, 0)$ So $a = -3$ $b = 1$ 	B1 B1
12b	Gradient = $(\frac{0-(-3)}{1-0}) = 3$ Y -intercept = -3 $y = 3x - 3$	M1 A1

EM1 EOY P2 2023 Answer Scheme

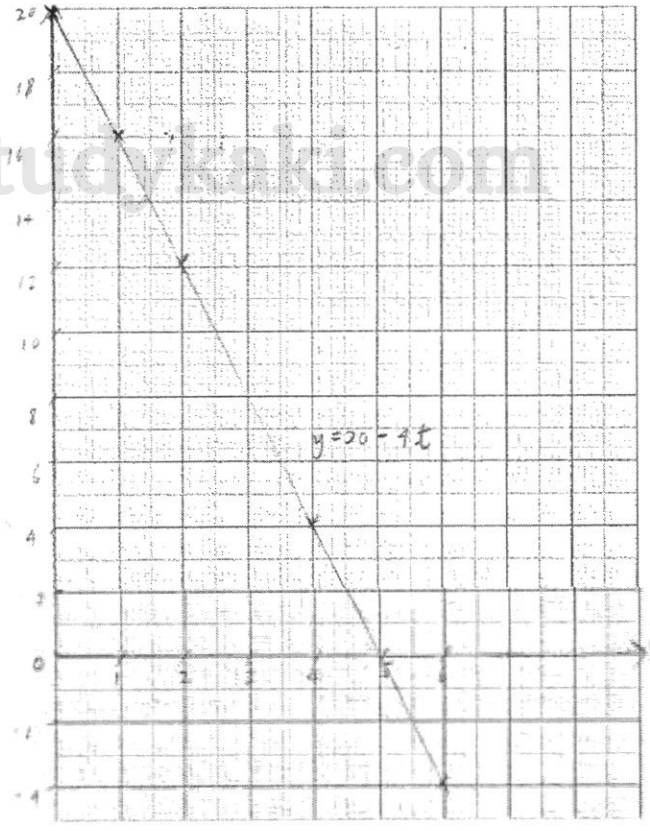
Qn	Answer with Mark Allocation		Remarks
1a	(i) $a:b = \frac{2}{5} : 2\frac{2}{5}$ $= \frac{2}{5} : \frac{12}{5}$ (×5) $= 1:6$	B1	
	(ii) $b:c = 0.70:0.350$ (×1000) $= 700:350$ $= 2:1$	B1	
1b	Make *b* common a:b 1:6 b:c (x3) 2:1 **a:b:c 1:6:3**	ecf B1	
1c	59 units = \$590 1 unit = $\frac{590}{59}$ Al = 7 units $= \frac{590}{59} \times 7$ = \$70	M1 A1	
2a	76.8 = 80, (all to 1 sf) 81.4 = 80, 75.3 = 80, 81.8 = 80 86.4 = 90 Total = 80+80+80+80+90 = 410 kg	M1 A1	
2b	It exceeded the maximum load, so it wont be safe to transport all together	B1	
2c	Total = 76.8+ 81.4+ 75.3+ 81.8+ 86.4 = 401.7 **Exceeds the maximum limit by a bit.** It's a suitable method as the results is still exceeding. Or The difference is big between actual and estimated so better to round off to 2 significant figures or nearest whole number instead, more accurate.	A1 B1	

3a	Equation: $1.6n + 0.8 = 0.7(n + 10) + 0.1$ (equation) $1.6n + 0.8 = 0.7n + 7 + 0.1$ $1.6n - 0.7n = 7.1 - 0.8$ (expand & simplified) $0.9n = 6.3$ $n = 6.3 \div 0.9 = 7$ (shown)	[M1] [M1] [A1]	
3b	Money = $1.6(7) + 0.8 = \$12$	[A1]	
3c	Apples amount = $12 - (3 \times 1.6) = 7.2$ Apples = $7.2 \div 0.7 = 10.3 \approx 10$	[M1] ecf [A1] ecf	
4a	Stall A = 175 **Stall B** = $0.85 \times 220 = \mathbf{187}$ [answer] Stall C = 180	[M1 or B1]	
4b	**Stall A** = $\frac{175}{200} \times 100\% = \mathbf{87.5}\%$ [answer] Stall B = 85% Stall C: 80%	[M1/A1/B1]	
4c	Stall A= 200 Stall B= 220 **Stall C** = $\frac{180}{80} \times 100 = \mathbf{225}$ [answer]	[M1/A1/B1] answer	
5a	Equation: $5y = 2y + 30$ $3y = 30$ $y = 10$ $x + 6 = 3(x - 2)$ $x + 6 = 3x - 6$ (expansion) $-2x = -12$ $x = 6$	[M1] [M1] [A1]	
5b	Area of rectangle = $15 \times 20 = 300$ Area of trapezium = $\frac{1}{2}(2)(6 + 9)$ =15 Area of circle not shaded = $\pi(4.5)^2$ = 63.6255	[M1] either area of rect/trapezium [M1] circle	Penalise missing units(U) and lack of accuracy (A).

	Shaded region = 300 + 15 – 63.6255 = 251.37 ≈ 251 cm^2 (3sf)	[A1] ecf Max 2 m only if any areas are wrong	
6a	Volume of bolt = volume of head + cylinder Head volume = base area x height = 10.4 × 0.5 = 5.2 cm^3 Cylinder volume = $\pi r^2 \times length$ = 3.142 × 1^2 x 5 = 15.71 cm^3 Total volume = 5.2+15.71 = 20.91 cm^3 ≈ 20.9 cm3	[M1] [M1] [M1/A1] final answer award max 2 m for any wrong area.	Penalise missing units(U) and lack of accuracy (A).
6b	Surface area of bolt (minus ring/circle) = base area + (base area- πr^2) + 6 sides = 10.4 + (10.4 – 3.142 × 1^2) + 6(2× 0.5) = 10.4 + 7.258 + 6 =23.658 cm^2 Surface area of cylinder (minus one base area covered by head) = 1 base area + curved lateral face = (πr^2) + ($2\pi r \times length$) = (3.142 × 1^2) + (2 × 3.142 × 1 × 5) = 3.142 + 31.42 = 34.562 cm^2 Total surface area = 23.658 + 34.562 = 58.22 ≈ 58.2 ($3sf$) cm^2 Shortcut: no need to do this *step 1: (base area- πr^2) because in step 2 (need to add it back)*	[M1 = πr^2 M1 = 6 sides M1= 2 base areas M1 = curved lateral face M1 = sum total no of side faces] Max 4 for M1 = 4 m [A1: final answer] or [M1= 2 base areas M1= 6 sides	Penalise missing units(U) and lack of accuracy (A) for whole question

	In step 1: 2 base areas + 6 sides step 2: curved lateral face step 3: add both values togetehr	M1= curved lateral face M1= sum total no. of side faces] A1: final answer	
7a	$\angle CBA = (4 \times 180) \div 6 = 120°$ $\angle PBA = (6 \times 180) \div 8 = 135°$ $\angle CBP = 360 - 120 - 135 = 105°$ (angles at a point)	M1 A1 (penalise presentation (P) for missing maths property in entire qns	
7b	$\angle CAB = (180 - 120) \div 2 = 30°$ (base angles of isos triangle) $\angle PAB = (180 - 135) \div 2 = 22.5$ (base angles of isos triangle) $\angle CAP = 30 + 22.5 = 52.5°$	Ecf from 11(a) M1- Either angle correct A1	
8a	x= odd (same as y or z) $y = 1$ $5(z + 1) - 3(z - 2) = 21$ $5z + 5 - 3z + 6 = 21$ $2z = 21 - 11$ $z = 5$ So x =5	[B1] [M1] [B1]	
8bi	 Model: of the answer	[M1] 1 arc drawn to get point R [M1] 1 arcs to get point Q [M1] 1 to measure angle	Penalise presentation (P) for lack of labelling of lengths and points

8bii	$\angle PRQ = 90°$ [#accepted 87-90] ΔPQR is a right-angled/isosceles triangle. [accepted based on above #: scalene, acute triangle]	[M1] must measure from drawing [A1]	
8biii	It has one. (can use line bisector or angle bisector method to obtain the symmetry line accurately) [accepted based on #: no line of symmetry]	[B1]	○
8biv	None or 0	[B1]	
9a	It is not correct. Based on my calculation branch A sales went up from 50 to 60 which is rise in $10\frac{10}{50} \times 100 = 20\%$ While in B, it is $\frac{20}{60} \times 100 = 33.3\%$	[B1] [A1] [A1]	
9b	The 2 graphs are plotted on the same range of number or same (scale along the) y axis, so we can see which branch has a steeper/higher sales (gradient) than the other.	[B1] [B1]	
10a	$q = 12$	[B1]	
10b	See below		
10c	Gradient = -4, it means that the temp is dropping by 4 every hour/unit time	[B1] Negatively related to time	
10d	It takes $t = 5$ hours	[B1] from graph to show it	
10e	20 means that the original/starting temperature of the fish/ constant start value	[B1]	
10b			



M1 – Axes drawn to the scale

~~M1~~ - Specified and labelled axes wit units

M1 – All points plotted correctly .

M1 – Straight line labelled with equation

3 M

M1 – Axes drawn to the scale

M1 - Specified and labelled axes wit units

M1 – All points plotted correctly .

M1 – Straight line labelled with equation