



S.E.A. PRACTICE BOOKLETS 2024

Aligned to the Revised S.E.A. Framework (2021-2024)

MATHEMATICS

ANSWER BOOKLET

BOOKLET 1

SECTION 1

1. **Answer** = 6 000
2. **Answer** = $\frac{1}{100}$ or 0.01
3. **Answer** = 46
4. **Answer** = 0.3
5. **Answer** = 20 %
6. **Answer** = 24
7. **Answer** = 77
8. **Answer** = 12:50
9. **Answer** = 6
10. **Answer** = \$1000
11. **Answer** = $7\frac{1}{8}$ km
12. **Answer** = 156 minutes
13. **Answer** = \$74.50
14. **Answer** = 24 glasses
15. **Answer** = 14 cubes
16. **Answer** = 8 cm
17. **Answer** = cone
18. **Answer** = B
19. **Answer** = 90 students
20. **Answer** = No | Average = 19.5

SECTION 2

21. Total = 360 donuts | Chocolate = $\frac{1}{5} \times 360 = 72$ donuts | $360 - 72 = 288$

Jelly = $\frac{5}{8} \times \frac{288}{1} = 180$ donuts

Answer = 180 jelly donuts

22. Total parts = $7 + 5 = 12$ parts | $96 \div 12 = 8$ | $8 \times 7 = 56$ boys

Answer = 56 boys

23. Triangle = $36 \times 4 = 144$ | Circle = $\sqrt{144} = 12$ | Rectangle = $12 - 7 = 5$

Sum of each number = $36 + 144 + 12 + 5 = 197$

Answer = 197

24. 28 children = 252 candles | 1 child = $252 \div 28 = 9$ candles each

156 children = $156 \times 9 = 1\,404$

Answer = 1 404 candles

25. Vintage = $\frac{2}{9}$ | Modern = $\frac{9}{9} - \frac{2}{9} = \frac{7}{9}$ | Difference = $\frac{7}{9} - \frac{2}{9} = \frac{5}{9}$ | $\frac{5}{9} = 115$ | $\frac{1}{9} = \frac{115}{5} = 23$ $\frac{9}{9} =$

$23 \times 9 = 207$ cars

Answer = 207 toy cars

26. Number of trays of avocados = the number of trays of cabbages

H.C.F. of 72 and 36 is 18, therefore the number of trays = 18

Answer = 18 trays

27. Total = 224 | Ian = | Maria = | Tom =

Total parts = 7 | 1 part = $224 \div 7 = 32$ | Tom = 4 parts = $32 \times 4 = 128$

Answer = 128 stickers

28. Total hours in one week = $8 \times 5 = 40$ | Sally = $12 \times 4 = 48$ | $48 \times 40 = 1\,920$

Smith = $26 \times 40 = 1\,040$

Difference = $1\,920 - 1\,040 = 880$ products

Answer = 880 products

29. Total rows = $8 + 3 + 1 = 12$ rows | Total chairs = $2 + 5 + 1 = 8$ chairs

Total chairs = $12 \times 8 = 96$ chairs

Answer = 96 chairs

30. One length of Field A = $2 \times 2 = 4$ m | Perimeter of Field A = $4 \times 4 = 16$ m

6 times = $16 \times 6 = 96$ m | One length of Field B = $6 \times 2 = 12$ m

Perimeter of Field B = $12 \times 4 = 48$ m | $96 \div 48 = 2$

Answer = 2 times

31. Duration of call = 4:10 to 6:55 = 2 hrs, 45 mins | First 5 mins = $\$ 0.50 \times 5 = \$ 2.50$

Next 15 mins = $\$ 10.00$ | 2 hrs 25 mins = 4 (30-min) periods and 25 mins

$5 \times \$18.00 = \$ 90.00$ | Total cost of the call = $\$ 2.50 + \$ 10.00 + \$ 90.00 = \$ 102.50$

Answer = \$102.50

32. a) Number of smaller buckets = $2\ 940 \div 840 = 3.5$. Total = 4 buckets

Answer = 4 buckets

b) The last bucket would be half filled. This means $\frac{1}{2} \times \frac{840}{1} = 420$ ml

Answer = 420 ml

33. a) **Answer** = East

b) **Answer** = 2 quarter turns

34. **Answer** = Rianna is correct.

A rhombus has all sides equal but in the shape shown, only opposite sides are equal.

The shape shown is a parallelogram

35. Total = 1 500 loaves | Sold = $408 + 513 + 474 = 1\ 395$ | Unsold = $1\ 500 - 1\ 395 = 105$

Average unsold = $105 \div 3 = 35$ loaves.

Answer = 35 loaves

36. Suitcase with clothes = 5 kg | Suitcase with shoes = 3 kg

Difference = $5 - 3 = 2$ kg = Suitcase

Suitcase with clothes and shoes = 6 kg | Clothes and shoes only = $6 - 2 = 4$ kg

Answer = 4 kg

SECTION 3

37. Total = 360 pastries | Spinach = $\frac{2}{9} \times 360 = 80$ | Chicken = $\frac{20}{100} \times 360 = 72$

Remainder = $360 - (80 + 72) = 208$ | Cheese = $\frac{1}{4}$ | Beef and Vegetable = $\frac{3}{4}$ of 208 = 156

Beef = 46 more | $156 - 46 = 110$ | $110 \div 2 = 55$ | Beef = $55 + 46 = 101$

Earnings = $101 \times \$3.00 = \303.00

Answer = \$303.00

38. Total length = 9 m = 900 cm | 1st post = | 2nd post =

3rd post = | 4th post = + 96

$900 - 96 = 804$ cm | $804 \div 6$ parts = 134 cm | 3rd post = 3 parts $\times 134 = 402$ cm

4th post = $134 + 96 = 230$ cm | Difference = $402 - 230 = 172$ cm = 1.72 m

Answer = 1.72 m

39. a)



b) **Answer** = 35th place

The pattern is $\times 2$, then add 2 | $72 - 2 = 70$ | $70 \div 2 = 35$

c) 4th shape = $4 \times 2 = 8 + 2 = 10$ | 9th shape = $9 \times 2 = 18 + 2 = 20$

17th shape = $17 \times 2 = 34 + 2 = 36$ | Total = $10 + 20 + 36 = 66$

Answer = 66 squares

40. Total Mon – Wed = $25 + 12 + 18 = 55$ | Cost = $45 \times 55 = \$2\,475$

$3\,600 - 2\,475 = \$1\,125$

Tickets sold Thurs = $1\,125 \div 45 = 25$

Total for Thurs and Frid = $20 \times 2 = 40$


Frid = $40 - 25 = 15$

Answer = Draw bar for Thursday = 25 tickets

Draw bar for Friday = 15 tickets

BOOKLET 2

SECTION 1

1. **Answer** = 60 438.75
2. **Answer** = <
3. **Answer** = 700
4. **Answer** = 81
5. **Answer** = 2 587
6. **Answer** = $4\frac{1}{2}$
7. **Answer** = 0.40
8. **Answer** = 21
9. **Answer** = 4 bottles
10. **Answer** = 5
11. **Answer** = \$240.00
12. **Answer** = $\frac{3}{5}$, 0.4, 20%
13. **Answer** = centimetres
14. **Answer** = 9:55
15. **Answer** = 3 edges
16. **Answer** = 2 lines of symmetry
17. **Answer** = Jessie
18. **Answer** = 570
19. **Answer** = Chocolate Fudge
20. **Answer** = Draw 4 symbol 

SECTION 2

$$21. \frac{2}{5} = \text{Boys} \quad | \quad \text{Girls} = \frac{5}{5} - \frac{2}{5} = \frac{3}{5} = 102 \quad | \quad \frac{1}{5} = 102 \div 3 = 34 \quad | \quad \frac{5}{5} = 34 \times 5 = 170$$

Answer = 170 students

$$22. \text{Savings} = \$230 \times 6 = \$1380.00 \quad | \quad \$2000 + \$230 = \$2230 \quad | \quad \$2230 - \$1380 = \$850$$

Answer = \$850.00

$$23. \text{Bus capacity} = 4 \quad | \quad \text{Maxi capacity} = \frac{3}{8} \times 40 = 15 \quad | \quad \text{Equal buses and maxis} = 40 + 15 = 55$$

$$450 \div 55 = 8 \text{ remainder } 10$$

Answer = 10 children

$$24. \text{ Creative Writing} = \frac{17}{20} \times 100 = 85\% \quad | \quad \text{Mathematics} = \frac{80}{100} = 80\%$$

$$\text{Language Arts} = \frac{30}{50} \times 100 = 60\% \quad | \quad \text{Difference} = 85 - 60 = 25\%$$

Answer = 25%

$$25. \text{ Total} = 600 \quad | \quad \text{Rotten} = 18\% \times 600 = 108 \quad | \quad \text{Remainder} = 600 - 108 = 492$$

$$\text{Potatoes packaged} = 492 \div 12 = 41$$

Answer = 41 boxes

$$26. \text{ Total} = \$500 \quad | \quad \text{Justin} = \square \quad | \quad \text{Garvin} \square + 60 \quad | \quad \text{Jerry} = \square + 60 + 53$$

$$\text{Difference} = 60 + 60 + 53 = 173 \quad | \quad \text{Remainder} = 500 - 173 = 327$$

$$\text{Each share} = 327 \div 3 = 109 \quad | \quad \text{Jerry} = 109 + 60 + 53 = \$222$$

Answer = \$222.00

$$27. 80\% = \$960 \quad | \quad 100\% = \frac{100}{80} \times 960 = \$1\,200$$

Answer = \$1 200.00

$$28. \text{ Total in 6 races} = 59.4 \text{ seconds} \quad | \quad \text{Average} = 59.4 \div 6 = 9.9$$

To improve her run time, she needs to run for less time.

$$\text{New Average} = 9.9 - 0.2 = 9.7 \quad | \quad \text{New Total} = 9.7 \times 7 = 67.9$$

$$\text{Time in 7}^{\text{th}} \text{ race} = 67.9 - 59.4 = 8.5 \text{ seconds}$$

Answer = 8.5 seconds

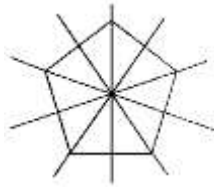
29. Empty crate = 0.48 kg = 480 g | 1 orange = $480 \div 30 = 16$ g | 2 crates = 50 oranges

Mass of 50 oranges = $50 \times 16 = 800$ g | 2 crates = $480 \times 2 = 960$ g

Combined weight = $960 + 800 = 1760$ g = 1.76 kg

Answer = 1 760 g or 1.76 kg

30.



Answer = pentagon

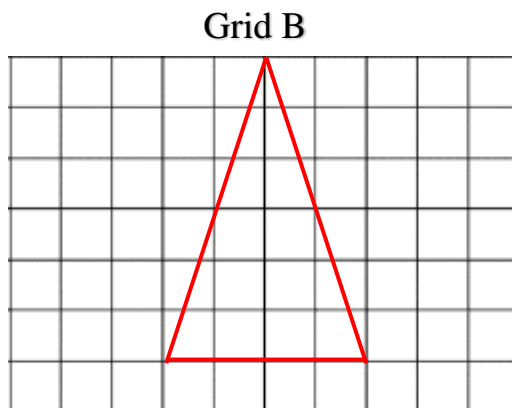
31. $378 \div 25 = 15$ remainder 3

Answer = 16 trips

32. a) **Answer** = 121; 169

b) **Answer** = The pattern is the square of odd numbers, starting from 1.

33.



34. 10 sunglasses and 10 watches = $610 + 490 = \$1\ 100$

20 sunglasses and 20 watches = $1\ 100 \times 2 = \$2\ 200$

Answer = \$2 200.00

35. Space and box = $3.6 + 1.4 = 5 \text{ m}$ | $56.4 \div 5 \text{ m} = 11 \text{ rem } 1.4 \text{ m} = 11 \text{ spaces and } 12 \text{ boxes}$

Answer = 12 customers

36. Average score = $25 + 30 + 21 + 24 = 100$ | $100 \div 5 \text{ scores} = 20$

Answer = 20

SECTION 3

37. Red = $25\% = \frac{1}{4}$ | Yellow, Green and Blue = $\frac{3}{4}$ |

R	Y	Y	GB
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Red and yellow combined = $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$

Remainder = Green + Blue = $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$ | Blue = $\frac{3}{3} - \frac{1}{3} = \frac{2}{3} = 42$ | $\frac{1}{3} = 42 \div 2 = 21$

$\frac{3}{3} = 21 \times 3 = 63$ | $\frac{1}{4} = 63$ | $\frac{4}{4} = 63 \times 4 = 252$

Answer = 252 marbles

38. a) John's blocks = $9 \times 3 = 27 \text{ cm}^3$ | Randy's blocks = $12 \times 3 = 36 \text{ cm}^3$ | $36 - 27 = 9 \text{ cm}^3$

Answer = 9 cm^3

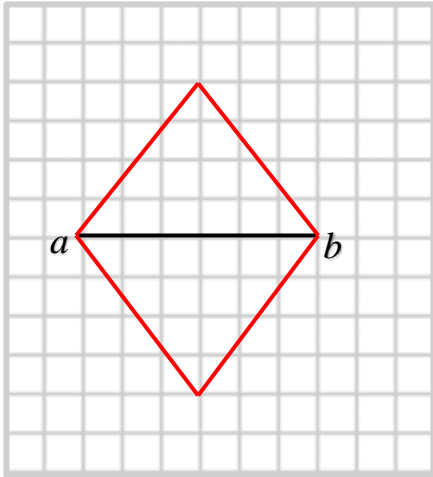
b) Additional blocks = $14 \times 3 = 42 \text{ cm}^3$ | Randy's blocks = 36 cm^3

New volume = $42 + 36 = 78 \text{ cm}^3$ | Difference = $78 - 27 = 51 \text{ cm}^3$ |

Number of blocks = $51 \div 3 = 17$

Answer = 17 blocks

39. a)



b) **Answer** = rhombus

c) **Answer** = All of the sides are equal; Opposite sides are parallel; Opposite angles are equal.

40. Total cars sold = 480 cars | Jan + Feb + Apr + May = 90 + 80 + 60 + 40 = 270

Mar and Jun = 480 - 270 = 210 | June = | Mar = | Total Parts = 3

Each part = 210 ÷ 3 = 70 | June = 70 x 2 = 140 | Mar = 70

Answer = Draw the bars for March and June.

March = 70 cars

June = 140 cars

b) **May** had the highest number of unsold cars.

BOOKLET 3

SECTION 1

1. **Answer** = 4 786
2. **Answer** = 20 000
3. **Answer** = 23
4. **Answer** = 6 more squares
5. **Answer** = \$9.25
6. **Answer** = $12\frac{1}{4}$ or 12.25
7. **Answer** = $\frac{2}{5}$
8. **Answer** = \$598
9. **Answer** = $52\frac{1}{2}$ or 52.5
10. **Answer** = 1
11. **Answer** = Twenty minutes to eleven
12. **Answer** = 85 pieces
13. **Answer** = 750 grams
14. **Answer** = 1.6 m or 160 cm
15. **Answer** = triangular prism
16. **Answer** = Point H
17. **Answer** = isosceles triangle
18. **Answer** = 5
19. **Answer** = 14 years old
20. **Answer** = 11 families

SECTION 2

21. Naila = 824 | Rachel = $824 - 279 = 545$ | Total = $545 + 824 = 1\ 369$

Answer = 1 369 toys

22. $\frac{1}{4} = \text{girls} = \frac{5}{20}$ | $\frac{2}{5} = \text{boys} = \frac{8}{20}$ | Difference in adults and girls = $56 = \frac{7}{20} - \frac{5}{20} = \frac{2}{20}$

, Total = $\frac{20}{2} \times 56 = 560$

Answer = 560 people

23. Special = $7 + 1 = 8$ tickets | 50 children = 6 sets of 8, rem 2

Paid tickets = $7 \times 6 = 42$ tickets + 2 tickets = 44 tickets

Cost = $44 \times 18.50 = \$ = \814

Answer = \$814.00

24. Sold $\frac{3}{4}$ | Remainder = $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$ | Remainder = $18 + 72 = 90$ | $\frac{1}{4} = 90$

$\frac{3}{4} = 90 \times 3 = 270$

Answer = 270 oranges

25. Profit = \$250 | S.P = $170 + 250 = \$420$ | Pineapples sold = $40 - 5 = 35$ kg

1 kg = $420 \div 35 = \$12$

Answer = \$12

26. Total = 356 | Bottle caps = □□□□ | Stickers = □ | Stamps = 51

$356 - 51 = 305$ bottle caps and stickers | 1 share = $305 \div 5 = 61$ | Bottle caps = $61 \times 4 = 244$

Answer = 244 bottle caps

27. Expected Time to be taken = $9:50 - 1:00 = 3$ hrs and 10 mins (to be on time)

2.8 hrs = 2 hrs 48 mins

Actual time taken = 30 mins + 8 mins + 2 hrs + 48 mins = 3 hrs 26 mins

Arrival time = 1:16 p.m.

Answer = No, she did not reach on time.

28. $\frac{1}{2} = \frac{2}{4}$ | $(\frac{2}{4} + \frac{3}{4}) \div 2 = \frac{5}{4} \times \frac{1}{2} = \frac{5}{8}$

Answer = $\frac{5}{8}$

29. 0.64 kg = 640 g | One table tennis ball = $640 \div 40 = 16$ g

10 balls = $10 \times 16 = 160$ g | Box and 10 balls = $160 + 640$ g = 800 g = 0.8 kg

Answer = 0.8 kg

30. 12 m = 120 cm | 1st piece = □ | 2nd piece = □ + 5 | 3rd piece = □ + 5 + 5

$120 - 15 = 105$ | $105 \div 3 = 35$ | Longest piece = $35 + 10 = 45$ cm

Answer = 45 cm

31. Less than 11 yrs = $6 + 3 = 9 = 25\%$ | $100\% = \frac{100}{25} \times \frac{9}{1} = 36$ girls

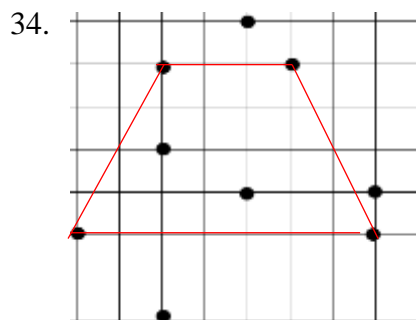
11 yrs = $36 - (6 + 3 + 9 + 5) = 13$

Answer = 13 girls

32. Shade a rectangle on the shape with sides measuring 10 cm x 6 cm (5 blocks x 3 blocks).

Answer = Shade 10 cm x 6 cm (5 blocks x 3 blocks).

33. **Answer** = Triangular Prism- 9 edges



b) **Answer** = trapezium

35. Incorrect total = $20 \times 84 = 1\,680$ | $1\,680 - 68 = 1\,612$

Correct total = $1\,612 + 88 = 1\,700$ | Correct average = $1\,700 \div 20 = 85$

Answer = 85

36. **Answer** = Chin should be given more tickets because he sold the most number of tickets.

SECTION 3

37. Extra Pencils = 8 more = $8 \times 2 = \$16.00$ | Remove the difference = $234 - 18 = \$216.00$
Next, share up the remainder. However, we cannot divide by 2. Since we are dealing with money, we have to divide by the total cost for the pencils and notebooks and not the quantity. $\$2.00 + \$4.00 = \$6.00$ | $\$216 \div \$6 = 36$ (36 sets of \$2.00 and \$4.00 or 36 pencils and 36 notebooks) | Total pencils = $36 + 8$ magnets = 44

Answer = 44 pencils

38. a) Total lamp posts = Total distance \div distance between each post | $360 \div 15 = 24 + 1$

Answer = 25 posts

b) 25 posts = 24 spaces | Wire needed = $24 \times 15.5 = 372$ m | Total rolls = $372 \div 100 = 3.72$

Answer = 4 rolls

39.

Pattern	1	2	3	8
Number of squares	1	2	3	8
Number of dots	5	8	11	26
Number of lines	8	15	22	57

40. Sunday = 60 pets = $\frac{1}{4}$ | Total Pets = $60 \times 4 = 240$ pets | Pets sold on other days = $\frac{3}{4} = 180$

Parrots sold during other days = $\frac{1}{2} \times 180 = 90$ parrots | Parrots sold on Sunday = 10 parrots
| Total parrots sold = $90 + 10 = 100$ | Total number of other pets = $240 - 100 = 140$ pets

Fraction of all animals except parrots = $\frac{140}{240} = \frac{7}{12}$

Answer = $\frac{7}{12}$

BOOKLET 4

SECTION 1

1. **Answer** = Six hundred and eight thousand and fifty-two
2. **Answer** = $5\frac{1}{4}$
3. **Answer** = 12
4. **Answer** = 9.01
5. **Answer** = 32
6. **Answer** = 4
7. **Answer** = 9 745
8. **Answer** = >
9. **Answer** = one 10-cent, two 25-cents
10. **Answer** = $6\frac{1}{4}$ hrs or 6.25 hrs
11. **Answer** = 1 550 g or 1.55 kg
12. **Answer** = \$653.75
13. **Answer** = $12\frac{1}{5}$
14. **Answer** = 24 cm
15. **Answer** = triangular prism
16. **Answer** = 80
17. **Answer** = b
18. **Answer** = rhombus
19. **Answer** = 26 students
20. **Answer** = Fred

SECTION 2

21. Popcorn = $7 \times 8 = \$56$ | Hamburger = $128 - 56 = \$72$ | $72 \div 12 = 6$

Answer = 6 hamburgers

22. $30\% = \frac{3}{10}$ | $\frac{3}{5} = \frac{6}{10}$ | $\frac{10}{10} - (\frac{6}{10} + \frac{3}{10}) = \frac{1}{10}$

Remainder = $\frac{1}{10} = 6$ fruits | $\frac{10}{10} = 6 \times 10 = 60$

Answer = 60 fruits

23. Ria = 19 yrs | Kareem = $19 - 7 = 12$ yrs | Peter = $(12 \times 2) + 3 = 27$ yrs

Answer = 27 years

24. Profit = 25% of \$3 000 = \$750 | Selling Price of 6 pairs = \$3 000 + 750 = \$3 750

1 pair = $3\,750 \div 6 = \$625.00$

Answer = \$625.00

25. $18 - \frac{4}{5} = 17\frac{1}{5}$ | $17\frac{1}{5} - 5\frac{2}{5} = 11\frac{4}{5}$

Answer = $11\frac{4}{5}$

26. Length = $10 + 12 = 32$ cm | Area = $32 \times 12 = 384$

Answer = 384 cm^2

27. Cost of 3 hotdogs = $4 \times 3 = \$12$ | $\$156 \div 12 = 13$ sets

Total hot dogs = $(13 \times 3) + (13 \text{ free}) = 52$

Answer = 52 hotdogs

28. Total = \$2 000 | Saved = $\frac{3}{8} \times 2\,000 = \750 | Spent = \$240

Remainder = $2\,000 - (750 + 240) = 1\,010$

Ana - □ | Mara - □ □ □ | Total parts = 4

$1\,010 \div 4 = \$252.50$ | Maria - $252.50 \times 3 = \$757.50$

Answer = \$757.50

29. Pattern 1 = $1 + 3 + 1$

Pattern 2 = $2 + 4 + 2$

Pattern 3 = $3 + 5 + 3$

Pattern 4 = $4 + 6 + 4$

Pattern 5 = $5 + 7 + 5$

Pattern 6 = $6 + 8 + 6$

Pattern 7 = $7 + 9 + 7$

Pattern 8 = $8 + 10 + 8$

Pattern 9 = $9 + 11 + 9 = 29$

Answer = 29 squares

30.

TURN	José	Bella
Start	North	North
1	South	West
2	North	South
3	South	East
4	North	North

31. $5.6 \text{ L} = 5\,600 \text{ ml} = 3 \text{ jugs} + 7 \text{ glasses} \mid 1 \text{ jug} = 6 \text{ glasses} \mid 3 \text{ jugs} = 6 \times 3 = 18 \text{ glasses}$

$5\,600 \text{ ml} = 18 \text{ glasses} + 7 \text{ glasses} = 25 \text{ glasses} \mid 1 \text{ glass} = 5\,600 \div 25 = 224 \text{ ml}$

Answer = 224 ml

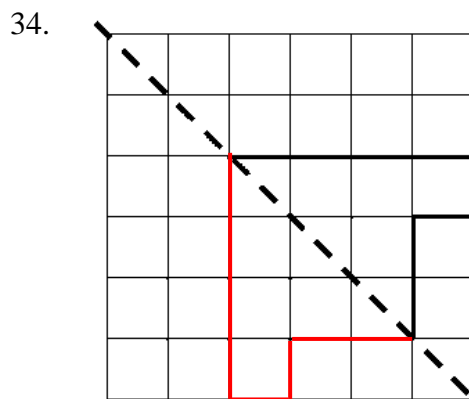
32. **Answer** = 5 faces, 8 edges, 5 vertices

33. Time taken on both trips = 2 hrs 35 mins | Trip to Penal = 23 mins longer

$2 \text{ hrs } 35 \text{ mins} - 23 \text{ mins} = 2 \text{ hrs } 12 \text{ mins} \mid 2 \text{ hrs } 12 \text{ mins} \div 2 = 1 \text{ hr } 6 \text{ mins}$

Journey to Penal = $1 \text{ hr } 6 \text{ mins} + 23 = 1 \text{ hr } 29 \text{ mins} \mid 1:40 + 1 \text{ hr } 29 \text{ mins} = 3:09 \text{ p.m.}$

Answer = 3:09 p.m.



35. $200 + 410 + 358 = 968 \mid 1600 - 968 = 632 \mid 632 \div 2 = 316$

Answer = 316 apples

36. Red and yellow = $8 + 14 = 22$ | Green and blue = $22 \times 2 = 44$ | Green = 17

Blue = $44 + 7 = 27$

Answer = 27 students

SECTION 3

37. Total children = 720 | Boys $\frac{1}{3} \times 720 = 240$ boys | Girls = $720 - 240 = 480$ girls

New percentage of boys = 60% | New percentage of girls = 40% | The number of girls did not change = 480 = 40 % | New total children = $\frac{100}{40} \times 480 = 1\ 200$

New set of boys = 60 % of 1 200 = 720 | Difference = $720 - 240 = 480$

480 new boys were added | Each group = $480 \div 6 = 80$

Answer = 80 boys

38. Length of gazebo = $16 - 12 = 4$ cm | Area of gazebo = $4 \times 4 = 16$ cm²

Area of entire garden = $16 \times 9 = 144$ cm²

Area of garden excluding gazebo = $144 - 16 = 128$ cm²

Difference between rest of garden and gazebo = $128 - 16 = 112$ cm²

Answer = 112 cm².

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39. (a) SHAPE **A** NAME **cube**
(b) SHAPE **F** NAME **square-based pyramid**
(c) SHAPE **B** NAME **triangular prism**
(d) SHAPE **D** NAME **triangular pyramid**

40. a) **Answer** = Thursday

b) Children **present** on Tuesday = $30 - 9 = 21$ | Children **present** on Friday = $30 - 16 = 14$

Difference = $21 - 14 = 7$

Answer = 7 students

BOOKLET 5

SECTION 1

1. **Answer** = 520 403
2. **Answer** = 11
3. **Answer** = 10 530
4. **Answer** = $8\frac{2}{5}$
5. **Answer** = 6 apples
6. **Answer** = $3\frac{7}{9}$
7. **Answer** = 77.77
8. **Answer** = equal to (=)
9. **Answer** = \$375
10. **Answer** = \$13.15
11. **Answer** = meters
12. **Answer** = 4 280 m
13. **Answer** = 750 g or 0.75 kg
14. **Answer** = 9:25 a.m.
15. **Answer** = 3 faces
16. **Answer** = 5 quarter turns
17. **Answer** = X and Y
18. **Answer** = blue
19. **Answer** = 85
20. **Answer** = 25 students

SECTION 2

21. $\frac{3}{8} = 42$ | $\frac{8}{8} = \frac{8}{3} \times 42 = 112$ | $\frac{5}{7} \times 112 = 80$

Answer = 80

22. Unit Price = $96 \div 4 = \$24$ | Total = $96 + 52 + 7.50 = \$155.50$

Answer =

Item	Unit Price	Total
4 Burgers	\$ 24	\$ 96.00
3 Hotdogs	\$ 14.00	\$ 52.00
3 Coffees	\$ 2.50	\$ 7.50
TOTAL		\$ 155.50

23. $12 \text{ bows} = 2.5 \times 12 = 30 \text{ m}$ | $30 \text{ m} - 27.46 = 2.54 \text{ m}$

Answer = 2.54 m

24. The total men = $\frac{1}{2} + \frac{1}{2} = 1$ whole | Difference = $125 \times 2 = 250$ men

Remove the difference = $850 - 250 = 600$ women

The total girls = $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$ whole

Next, divide the remainder by the total number of equal parts.

We have 6 equal parts: (4 quarters + 2 halves) = $600 \div 6 = 100$

The total number of men = $(125 + 100) + (125 + 100)$ or $225 + 225 = 450$

The total number of women = $100 \times 4 = 400$

Answer = 400 women

25. $\frac{10}{100} \times 240 = 24$ | $240 - 24 = 216$ | $216 \div 2 = 108$ | Jerome = $108 + 24 = 132$

Answer = 132 tangerines

26. Difference in Maria's bill and Alex's bill = 2 watches, 4 bracelets and 4 pairs of earrings

Difference in cost = $5\,642 - 3\,850 = 1\,792$

Answer = \$1 792

27. Numbers between 60 and 100 with a remainder of 2 when divided by 5 = 62, 67, 72, 77, 82, 87, 92 | 82 is the only number that leaves a remainder of 5 when divided by 7.

Answer = 82

28. Amrit = 12 yrs | Brother = $12 + 7 = 19$ yrs | Asha = $19 + 3 = 22$ yrs

Ria = $22 \times 2 = 44$ yrs | Father = $44 \times 2 = 88$ yrs

Answer = 88 years

29. Time taken Monday = $1 \text{ hr } 25 \text{ mins} - 30 = 55 \text{ mins}$ | $2:45 + 55 \text{ mins} = 3:40$

Answer = 3:40 p.m.

30. 1 truck = 8 cm | 3 trucks = $8 \times 3 = 24$ cm | 1 knife = 6.5 cm

2 knives = $6.5 \times 2 = 13$ cm | Difference = $24 - 13 = 11$ cm

Answer = 11 cm

31. 24 boxes = $1.6 \times 24 = 38.4$ m | Spaces = 23 | $2.5 \times 23 = 57.5$

Total distance = $38.4 + 57.5 = 95.9$ m

Answer = 95.9 m

32. Mean time of Nathan and Kavir = $(68.41 + 63.39) \div 2 = 65.9$

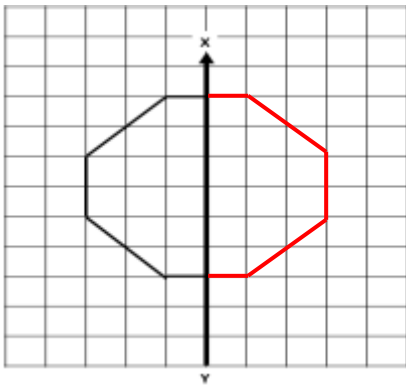
Claudio's time was 7.2 minutes faster which means he took less time = $65.9 - 7.2 = 58.7$

Answer = 58.7 minutes

33. Vertices in a square based pyramid = 5 | Vertices in a triangular prism = 6 | $5 + 6 = 11$

Answer = 11 vertices

34.



Answer = octagon

35. Mean = $(6 + 10 + 9 + 11) \div 4 = 9 = \text{Moana}$

Percentage of class = $\frac{9}{36} \times \frac{100}{1} = 25\%$

Answer = 25%

$$36. \text{Football} = \frac{3}{8} \mid \text{Basketball, Swimming and Tennis} = \frac{5}{8} \mid \frac{5}{8} = 10 + 16 + 14 = 40$$

$$\frac{5}{8} = 40 \mid \frac{1}{8} = 8 \mid \frac{3}{8} = 8 \times 3 = 24 \text{ students}$$

Answer = Draw the bar for 24 students

SECTION 3

$$37. \text{Total} = 174 \mid \text{Class A} = \square \square \square \square \mid \text{Class B} = (\square + 6) \times 5$$

$$\text{Difference} = 6 \times 5 = 30 \mid \text{Remove the difference} = 174 - 30 = 144$$

$$\text{Total parts} = 4 \text{ bags} + 5 \text{ bags} = 9 \mid 144 \div 9 = 16 \mid \text{Each bag (Class B)} = 16 + 6 = 22$$

Answer = 22 chocolates

$$38. \text{Home to Bus Stop} = 8:40 + 15 = 8:55 \mid \frac{1}{5} \text{ of an hr} = 12 \text{ mins}$$

$$\text{Bus Stop wait} = 8:55 + 12 = 9:07 \mid \text{Bus Stop to library} = 25 \text{ mins} - 4 = 21 \text{ mins}$$

$$9:07 + 21 \text{ mins} = 9:28 \mid \text{Library opens } 10:00 \text{ am} \mid 10:00 - 9:28 = 32 \text{ mins}$$

Answer = 32 mins

$$39. \text{a) Pattern rule} = (\text{Pattern number} \times 2) - 1$$

$$\text{Pattern 1} = (1 \times 2) - 1 = 1 \mid \text{Pattern 2} = (2 \times 2) - 1 = 3 \mid \text{Pattern 3} = (3 \times 2) - 1 = 5$$

$$\text{Pattern 21} = (21 \times 2) - 1 = 41$$

Answer = 41 circles

$$\text{b) } 75 + 1 = 76 \mid 76 \div 2 = 38$$

Answer = Pattern 38

$$40. \frac{3}{4} \times 52 = 39 \mid \text{Lendore} = 39 + 7 = 46 \text{ students} \mid \text{Mean} = 42$$

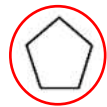

$$\text{Total students} = 42 \times 4 = 168 \text{ students} \mid \text{Walcott} = 168 - (36 + 52 + 46) = 34 \text{ students}$$

Answer = Draw the bar for Walcott and Lendore.

$$\text{Walcott} = 34 \text{ students} \mid \text{Lendore} = 46 \text{ students}$$

BOOKLET 6

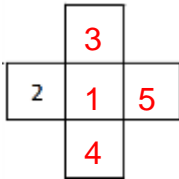
SECTION 1

1. **Answer** = tenths
2. **Answer** = 4 750
3. **Answer** = 31
4. **Answer** = 40%
5. **Answer** = $\frac{1}{16}$
6. **Answer** = 2.4
7. **Answer** = $1\frac{1}{8}$
8. **Answer** = $\frac{1}{20}$
9. **Answer** = 155
10. **Answer** = 192 slices
11. **Answer** = 29th July
12. **Answer** = 100 days
13. **Answer** = 1 hr 5 mins
14. **Answer** = 550 ml or 0.55 litres
15. **Answer** = 64 cm²
16. **Answer** = pentagon 
17. **Answer** = 11
18. **Answer** = 36 cm³
19. **Answer** = 154 cm
20. **Answer** = 14 

SECTION 2

21. Remaining stickers = $125 - 60 = 65$ | $\frac{65}{125} \times 100 = 52$

Answer = 52 %

22. 

23. \$ given to waiter = $\frac{15}{100} \times 480 = \72 | Total spent = $480 + 72 = \$552$

\$ left = $600 - 552 = \$48$

Answer = \$48

24. Total = \$1 020 | \$5 - □□□□ | \$10 - □

Total number of parts (in \$) = $(5 \times 4) + 10 = \$30$ | Each share = $1\ 020 \div 30 = \$34$

Total \$5 = $5 \times 4 = 20$ | Money in \$5 bills = $20 \times \$34 = \680

Answer = \$680

25. $8\frac{5}{12} = 8$ | $11\frac{3}{4} = 12$ | $14\frac{2}{5} = 14$

$8 + 12 + 14 = 34$

Answer = 34

26. **Answer** = The value of the 2 is 200 and the value of the 4 is 40. $200 \times 40 = 8\ 000$

27. Teenagers = 2 850 | Adults = $2\ 850 - 688 = 2162$ | Total = $2850 + 2162 = 5\ 012$

Answer = 5 012 people

28. Smallest difference = 1 which will be 2 consecutive numbers | $759 \div 2 = 379.50$

Answer = 379 and 380

29. $\frac{5}{8} = 11 + 14 = 25$ | $\frac{8}{8} = \frac{8}{5} \times 25 = 40$ | $C = 40 - (4 + 11 + 9 + 14) = 2$

Answer = 2

30. Total = 6L = 6 000 ml | 1 day = $250 \times 3 = 750$ ml | $6\ 000 \div 750 = 8$ days

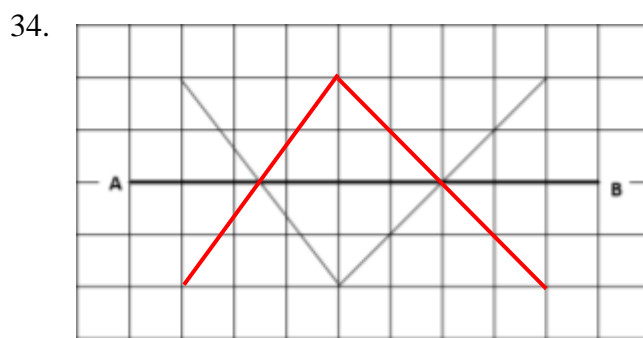
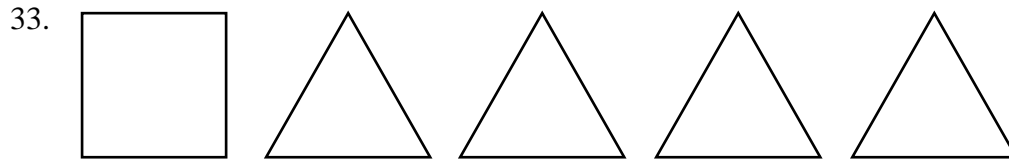
Answer = 8 days

31. **Answer** = The fractions must be converted to equivalent fractions. The denominator represents the total number of parts and the numerator represents a portion out of the

total | $\frac{2}{3} = \frac{4}{6}$ | $\frac{4}{6}$ is larger than $\frac{2}{6}$ because 4 parts is greater than 2 parts out of 6.

32. $51 = 30\% \mid 100\% = \frac{100}{30} \times 51 = 170 \mid \text{Day 4} = 170 - (28 + 39 + 51 + 40) = 12$

Answer = 12 couches



35. April 5th – 14 days = March 22nd | Since Sade is older, she was born before.

Answer = March 22nd

36. August is the best month for saving money because he has the most amount of money left over and December is the least suitable month because there is not much money available to save.

SECTION 3

37. $\frac{3}{5} = 108 \mid \frac{1}{5} = 108 \div 3 = 36 \mid \frac{5}{5} = 36 \times 5 = 180 \mid \text{Total money} = 180$

Cost of 3 pies = cost of 2 tarts | She purchased 6 pies and 8 tarts

= Cost of 3 pies | 6 pies =

= Cost of 8 tarts | 8 tarts =

Total parts = 2 + 4 = 6 | $108 \div 6 = \$18 = \text{Cost of 3 pies}$

1 pie = $18 \div 3 = \$6$ | Total Money = \$180 | Pies purchased with total money = $180 \div 6 = 30$

Answer = 30 pies

38. $45 \text{ L} = 45\,000 \text{ ml}$ | $45\,000 \div 250 = 180 \text{ tins}$ | S.P of tins = $1\,425 + 4\,065 = \$5\,490$

Each tin = $5\,490 \div 180 = 30.50$

Answer = \$30.50

39. a) **Answer** = Southwest

b) **Answer** = 2

c) **Answer** = Southeast

40. a) Total = $150 \times 5 = 750$ sandwiches | Total unsold = $50 + 30 + 10 + 20 + 15 = 125$

Total sold = $750 - 125 = 625$

Answer = 625 sandwiches

b) The business owner should reduce the number of cheese sandwiches since it is the highest number of unsold sandwiches and he should prepare more meat lovers sandwiches.