## <u>TEST 15</u>

**SECTION 1** 1) 8 = 80,0002) 5  $3)\frac{41}{7} = 5\frac{6}{7}$ 4)  $35.24 \div 5 = 7.048$ 5)  $(12 \times 10) + (12 \times 4) = 12 \times 14$ 6)  $7^3 + \sqrt{144} = 343 + 12 = 255$ 7)  $4 - \frac{5}{4} = \frac{16}{4} - \frac{5}{4} = \frac{11}{4} = 2\frac{3}{4}$ 8) 20 + 10 + 5 = 35.0010c + 25c + 25c = \$00.60 +\$35.60 9) 315 × <u>24</u> 7,560 10) 727 11 911 +-<u>727</u> 911 184 727 91 11) 1 length = 2cm Route AB = 12 lengths  $\times 2 = 24$ cm 12) 1:50

13)  $6^{\text{th}}$  December, 2020 (17–11 = 6)

14) Volume of 1 cube =  $3 \times 3 \times 3 = 27$  cm<sup>3</sup> Volume of solid =  $32 \text{ cubes} \times 27$  $= 864 \text{cm}^{3}$ 15) B,D 16) Trapezium 17) C 18) Chocolate = 4 persons 19)  $80 \div 20 = 4$ 20) Mean =  $20 + 24 + 18 + 21 + 37 = 120 \div 5$ = 24**SECTION 2** 21) 5 – 12-Seater Maxi-Taxis =  $5 \times 12$ = 60 passengers 1 Maxi-Taxi rental = \$1,200 $\therefore$  5 Maxi-Taxi rentals = \$1,200  $\times$  5 = \$6,000 Money for tickets = 10,500 - 6,000= \$4,500 60 people = \$4,500 $\therefore 1 \text{ person} = \$4,500 \div 60 = \$75 \text{ per ticket}$ 22) NE NW W◄ ۰E **S**E SW



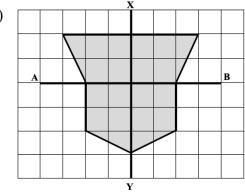
23) 
$$\frac{3}{5}$$
 full = 60 × 80 × 30 = 144,000 cm<sup>3</sup>  
144,000 ÷ 1,000 = 144 Litres  
 $\frac{3}{5}$  = 144 Litres  
 $\therefore \frac{5}{5} = \frac{5}{3} \times \frac{144}{1} = 240$  Litres

24)

| Item          | Quantity       | Unit Cost             | Total Cost |
|---------------|----------------|-----------------------|------------|
| Pigeon Peas   | $3\frac{1}{2}$ | \$30 per kg           | \$105.00   |
| Callaloo Bush | 4 Bun.         | \$7.50 per Bun.       | \$30.00    |
| Tomatoes      | 3 kg           | <b>\$15.00</b> per kg | \$45.00    |
| Pumpkin       | 3 kg           | <b>\$4.50</b> per kg  | \$13.50    |
|               |                | Total                 | \$193.50   |

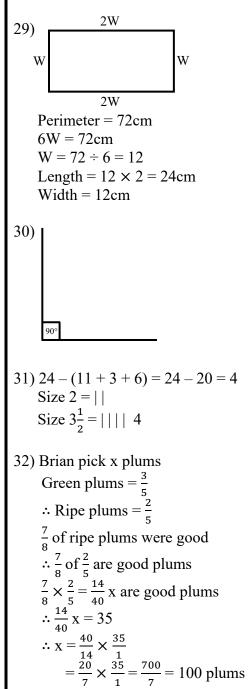
- 25) 1 = 10 Houses  $\therefore 20 = 20 \times 10 = 200$  Houses Jaguar Drive = 4 × 10 = 40 Houses  $= \frac{40}{200} \times \frac{100}{1} = 20\%$
- 26) Adult Ticket = \$120 Child Ticket = \$75 Children's Ticket Total = \$7,500 Adult Tickets = \$31,500 - \$7,500 = \$24,000 No. of Adults = \$24,000 ÷ \$120 = 200  $\frac{2}{3}$  Patrons = 200 Total Patrons =  $\frac{3}{2} \times \frac{200}{1} = 300$

27)



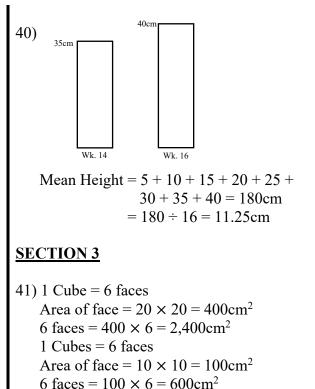
Pentagon & Trapezium

28) 1 container = 8.125 Litres = 8125ml 1 cup = 325ml No. of cups = 8125 ÷ 325 = 25 Containers needed for 100 cups =100 ÷ 25 = 4 Containers



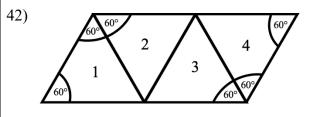
## <u>TEST 15</u>

- 33) Total Weight of 3 boys = 91.3kg Alex weighs 1.3kg more 91.3kg - 1.3kg = 90kg 90kg  $\div$  3 boys = 30kg Alex = 30kg + 1.3kg = 31.3kg
- 34) (b) 7,380 ends with a '0'. Multiples of 5 end with a '5' or a '0'. So Cade was able to identify 7,380 as the only number in the set which ends with a '0'.
- 35) Arrival Time =  ${}^{22}23:05^{+60}$ Flight Time =  ${}^{4:45} - {}^{18:20} - {}^{12:00} - {}^{12:00} - {}^{6:20} \text{ p.m.}$
- 36) Collection = 165 stamps Gave Lisa  $33\frac{1}{3}\% = \frac{1}{3}$  of 165  $=\frac{1}{3} \times \frac{165}{1} = 55$  stamps Jill Kept = 165 - 55 = 110 stamps
- 37)  $\sqrt{81+8}$ ,  $\sqrt{64+7}$
- 38) Cost Price = \$2,460 Profit =  $75\% = \frac{75}{100} \times $2,460 = $1,845$   $\therefore$  Selling Price = C.P. + Pro. = \$2,460 + \$1,845 = \$4,305
- 39) Nathan 12 years
  Mary 12 years + 9 years = 21 years
  Robert 12 years 6 years = 6 years
  Tyler = 21 ÷ 3 = 7 years



Area of 1 sheet Bristol board =  $80 \text{ cm} \times 70 \text{ cm} = 5,600 \text{ cm}^2$   $\therefore$  1 sheet = 2 large Cubes =  $2,400 \times 2$ =  $4,800 \text{ cm}^2$ 1 small Cubes =  $600 \text{ cm}^2$ 2 small faces =  $600 \times 2 = 1,200 \text{ cm}^2$ 

3 sheets of Bristol Board = 3 × 2 = 6 Large Cubes 3 × 1 = 3 small Cubes Plus 3 × 2 = 6 faces = 1 small cube



43) 40 hrs × \$40 = \$1,600 Overtime Rate = Time and a Half = \$40 + \$20 = \$60 40 hrs Regular Time = \$1,600 <u>Over Time</u> = Tues = 4hrs Wed =  $\frac{1}{2} \times \frac{4}{1} = 2hrs$ Fri = 3 × 2hrs = 6hrs Total O.T. hrs = 4 + 2 + 6 = 12hrs × \$60 = \$720 1 Week Total Earnings Regular Time = \$1,600 Over Time =  $\frac{$720}{$2,320}$ 

44) Original Price = \$4,000 25% Discount =  $\frac{25}{100} \times \frac{$4,000}{1}$  = \$1,000 off Sale Price = \$4,000 - \$1,000 = \$3,000 Further Discount = 20%  $= \frac{20}{100} \times $3,000 = $600$ New Discounted Price = \$3,000 - \$600 = \$2,400V.A.T.  $12\frac{1}{2}\% = \frac{1}{8} \times \frac{$2,400}{1} = $300$ Total Cost V.A.T. inclusive = \$2,400 + \$300Down-payment = \$300

Balance = \$2,700 - \$300 = \$2,4006 equal Instal. =  $$2,400 \div 6$ = \$400 monthly 45) Absent: Mon. - 25 Tue. - 25 Thurs. - 25 Fri. - <u>25</u> Total <u>100</u> Average Absent =

Average Absent = 23 pupils  $\therefore$  Total Abs. = 23 × 5 = 115 pupils Wed. = 115 - 100 = 15 pupils

115 pupils =  $33\frac{1}{3}\% = \frac{1}{3}$  School Pop.  $\frac{115}{1} \times \frac{3}{1} = 345$  Full School Population

Fraction of School Pop. Absent on Fri.  $= \frac{45 \div 15}{345 \div 15} = \frac{3}{23}$   $\therefore$  Fraction Present on Fri  $= \frac{23}{23} - \frac{3}{23} = \frac{20}{23}$