
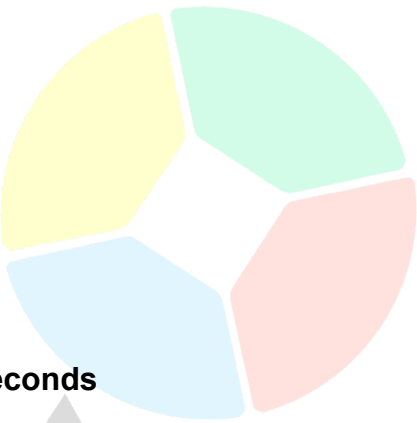



ANSWER KEY

QUESTION	CORRECT ANSWER
1	<p>A</p> <p>Given: Bert + Ernie = 40 Bert gave 6 cards to Ernie</p> <p>Solution: Bert + Ernie = 40 Bert = 40 - Ernie</p> <p>Bert - 6 = Ernie + 6 40 - Ernie - 6 = Ernie + 6 2 Ernie = 28 Ernie = 14 cards</p>
2	<p>D</p> <p>Given: 18 meters long Cuts into 20 cm each</p> <p>Solution: 18 meters $\times \frac{100 \text{ cm}}{1 \text{ m}} = 1800 \text{ cm}$ Number of pieces = $\frac{1800}{20}$ Number of pieces = 90 pieces</p>
3	<p>E</p> <p>Given: 12 Liters Removed $\frac{1}{6}$ of the water</p> <p>Solution: Left = 12 - 12($\frac{1}{6}$) Left = 10 Liters</p>

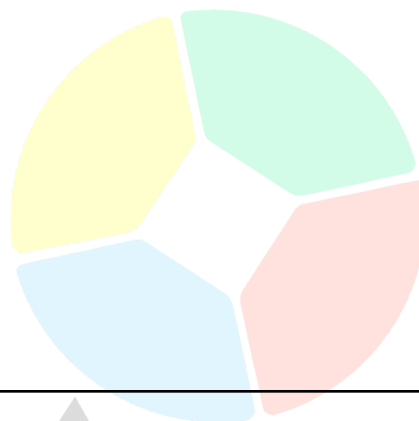
4	<p>C</p> <p>Given: 23 meters = 7 Blouses 3 meters per blouse</p> <p>Solution: Left for skirt = 23 - 21(7) Left for skirt = 2 meters</p> <p>2 meters $\times \frac{100\text{ cm}}{1\text{ m}} = 200\text{ cm}$</p> <p>Each Skirt = $\frac{200}{4}$ Each Skirt = 50 cm</p> 
5	<p>A</p> <p>Given: Fractions</p> <p>Solution: Convert all to decimal</p> <p>Choice A $\frac{4}{5} = 0.8$</p> <p>Choice B $\frac{2}{5} = 0.4$</p> <p>Choice C $\frac{2}{3} = 0.667$</p> <p>Choice D $\frac{1}{2} = 0.5$</p> <p>Choice E $\frac{1}{3} = 0.3333$</p> <p>Therefore the answer is choice A</p>


6	<p>E</p> <p>Given: 2 km = 60 seconds 116 km = ?</p> <p>Solution: 2 km = 60 seconds 1 km = 30 seconds</p> <p>116 km = 116(30) 116 km = 3480 seconds</p> <p>3480 seconds x $\frac{1 \text{ minute}}{60 \text{ seconds}}$ = 58 seconds</p> 
7	<p>B</p> <p>Given: 438 Liters Divided it into 3 Liter container</p> <p>Solution: Numbers of container = $\frac{438}{3}$ Numbers of container = 146 containers</p>
8	<p>C</p> <p>Given: Devin = 2 Andrew Devin = 64 years old</p> <p>Solution: Andrew = $\frac{1}{2}$ (64) Andrew = 32 years old</p> <p>Andrew 7 years from now = 32 + 7 Andrew 7 years from now = 39 years old</p>

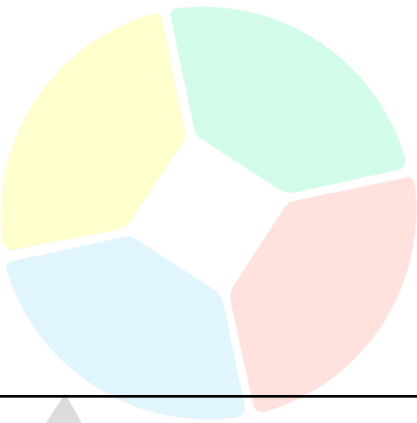
9	<p>E</p> <p>Given: Combine length = 220 cm Window 1 = Window 2 + 180</p> <p>Solution: Window 1 + Window 2 = 220 Window 2 + Window 2 + 180 = 220 2 Window 2 = 40 Window 2 = 20</p> <p>Window 1 = 180 + 20 Window 1 = 200 cm</p> 
10	<p>A</p> <p>Given: Maple:Oak = 7:13 Oak = 78</p> <p>Solution: $\frac{7}{13} = \frac{\text{Maple}}{78}$ 13 Maple = 546 Maple = 42</p> <p>Oak - Maple = 78 - 42 Oak - Maple = 36</p>
11	<p>C</p> <p>Given: Time = 10:55 AM 145 minutes ago or 2 hours and 25 minutes</p> <p>Solution: 10:55 AM - 2 hours and 25 minutes = 8:30 AM</p>
12	<p>E</p> <p>Given: \$115 monthly for 2 years</p> <p>Solution: Paid = 115(24) Paid = \$2760</p>

13	<p>D</p> <p>Given: 2,5,7,8</p> <p>Solution: Smallest = 2578 ← Arrange greatest to lowest</p> <p>Biggest = 8752 ← Arrange lowest to greatest</p> <p>Difference = 8752 - 2578 Difference = 6174</p>
14	<p>B</p> <p>Given: 6 days ago = Friday 14 days from today = ?</p> <p>Solution: Today = Friday + 6 days Today = Thursday</p> <p>14 days from today = Thursday</p>
15	<p>E</p> <p>Given: 67 rows 83 apples tree per row</p> <p>Solution: Number of apple trees = 67 x 83 Number of apple trees = 5561 apple trees</p>
16	<p>C</p> <p>Given: 3 bottles laundry detergent with 1.85 Liters capacity 5 bottles hand soap with 820 Milliliters capacity ← or 0.82 Liters</p> <p>Solution: Difference = 3(1.85) - 5(0.82) Difference = 5.55 - 4.1 Difference = 1.45 Liters</p>


17	<p>A</p> <p>Given:</p> <p>Theodore = Alvin + 0.25</p> <p>Simon = Alvin - 0.08</p> <p>Simon = 1.43 meters</p> <p>Solution:</p> <p>Alvin = 1.43 + 0.08</p> <p>Alvin = 1.51 meters</p> <p>Theodore = 1.51 + 0.25</p> <p>Theodore = 1.76</p>
18	<p>D</p> <p>Given:</p> <p>Black:White = 5:8</p> <p>40 black tokens</p> <p>Solution:</p> <p>Total ratio = 5 + 8</p> <p>Total ratio = 13</p> $\frac{\text{Black}}{\text{Total}} = \frac{5}{13}$ $\frac{5}{13} = \frac{40}{\text{Total}}$ <p>5 Total = 520</p> <p>Total = 104 tokens</p>
19	<p>B</p> <p>Given:</p> <p>Bubble gums = 16 pieces</p> <p>Ate = $\frac{1}{8}$</p> <p>Gave = $\frac{1}{4}$</p> <p>Solution:</p> <p>Left = $16 - 16(\frac{1}{8}) - 16(\frac{1}{4})$</p> <p>Left = 10 pieces</p>



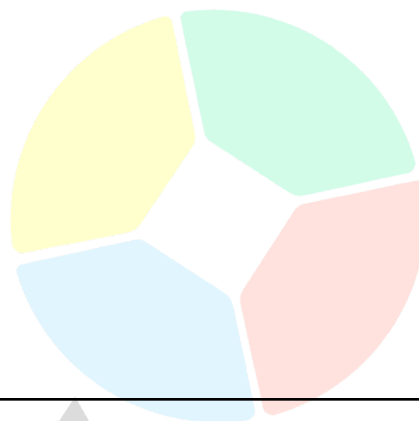
20	<p>C</p> <p>Given: 10 minutes = 8 km 2 hours = ?</p> <p>Solution: 2 hours = 120 minutes</p> <p>1 minute = $\frac{8}{10}$ km</p> <p>120 minutes = $\frac{8}{10}(120)$ 120 minutes = 96 km</p> 
21	<p>D</p> <p>Given: L = 2W L = 8 meters</p> <p>Solution: W = $\frac{1}{2}(8)$ W = 4 meters</p> <p>Area = L x W Area = 8 x 4 Area = 32 m²</p>
22	<p>D</p> <p>Given: Container capacity of 7.2 Liters Glass capacity = 600 ml or 0.6 Liter</p> <p>Solution: Number of glasses = $\frac{7.2}{0.6}$ Number of glasses = 12 glasses</p>


23	<p>A</p> <p>Given:</p> <p>Spaghetti = $\frac{2}{5}$ kg</p> <p>Lasagne = $\frac{3}{10}$ kg</p> <p>Left = $\frac{1}{5}$ kg</p> <p>Solution:</p> <p>Total = $\frac{2}{5} + \frac{3}{10} + \frac{1}{5}$</p> <p>Total = $\frac{4+3+2}{10}$</p> <p>Total = $\frac{9}{10}$ of a kg</p> 
24	<p>B</p> <p>Given:</p> <p>Empty box = 0.2 kg</p> <p>$\frac{1}{2}$ filled = 0.7 kg</p> <p>Solution:</p> <p>$\frac{1}{2}$ Sand + Empty box = 0.7</p> <p>$\frac{1}{2}$ Sand = 0.5</p> <p>Sand = 1 kg</p> <p>Full = 1 + 0.2</p> <p>Full = 1.2 kg</p>
25	<p>E</p> <p>Given:</p> <p>Butter:Flours = $\frac{1}{3}$: 300</p> <p>750 grams =</p> <p>Solution:</p> <p>$\frac{\frac{1}{3}}{300} = \frac{\text{Butter}}{750}$</p> <p>250 = 300 Butter</p> <p>Butter = $\frac{5}{6}$ of a bar</p>

26	<p>D</p> <p>Given: Monday = 522 students Tuesday = Twice the number of students on monday</p> <p>Solution: Tuesday = 522×2 Tuesday = 1044</p> <p>Total = $522 + 1044$ Total = 1566 students</p>
27	<p>B</p> <p>Given: 4 pots = \$8 \$32</p> <p>Solution: Number of sets = $\frac{32}{8}$ Number of sets = 4 sets</p> <p>Number of pots = 4×4 Number of pots = 16 pots</p>
28	<p>C</p> <p>Given: Pens = \$4.5 Pencil = \$2.25 Money \$25 3 pencils</p> <p>Solution: Let P = number of pens</p> <p>$25 = P(4.5) + 3(2.25)$ $25 = 4.5 P + 6.75$ $4.5 P = 18.25$ $P = 4.05556 \leftarrow \text{Round down}$</p> <p>Therefore the greatest number of pens he can buys is 4 pens</p>

29	<p>A</p> <p>Given: Jill = 4 Jack Together = 35 in 1 hour</p> <p>Solution: Jill + Jack = 35 4 Jack + Jack = 35 5 Jack = 35 Jack = 7 widgets</p> <p>3 hours Jack = 3(7) 3 hours Jack = 21 widgets</p> 
30	<p>B</p> <p>Given: 15 machine = 15 lamps in 15 minutes 75 machines to make 75 lamps = ?</p> <p>Solution: 15 Lamp = 15 machine ← 15 minutes 1 lamp = 1 machine ← 15 minutes 1 lamp per machine per 15 minutes</p> <p>Therefore in 15 minutes if there are 75 machine, we can make 75 widgets</p> <p>Therefore the answer is 15 minutes</p>
31	<p>B</p> <p>Given: 24 students Blue eyes = 18 students</p> <p>Solution: Not blue eyes = 24 - 18 Not blue eyes = 6 students</p> <p>Fraction = $\frac{6}{24}$ Fraction = $\frac{1}{4}$</p>

32	<p>D</p> <p>Given:</p> <p>Red = $\frac{2}{3}$</p> <p>Blue = $\frac{1}{9}$</p> <p>Remaining = Yellow</p> <p>Solution:</p> <p>Yellow = $1 - \frac{2}{3} - \frac{1}{9}$</p> <p>Yellow = $\frac{9-6-1}{9}$</p> <p>Yellow = $\frac{2}{9}$</p>
33	<p>C</p> <p>Given:</p> <p>Shoes = \$64</p> <p>Then have a 15% off</p> <p>Solution:</p> <p>Discount = $64(0.15)$</p> <p>Discount = \$9.6</p>



34	<p>B</p> <p>Given: 140 pieces of candies Blossom:Bubbles:Buttercup = 1:2:4</p> <p>Solution: Total ratio = 1 + 2 + 4 Total ratio = 7</p> $\frac{\text{Blossom}}{\text{Total}} = \frac{1}{7}$ $\frac{\text{Blossom}}{140} = \frac{1}{7}$ <p>7 Blossom = 140 Blossom = 20 candies</p> $\frac{\text{Bubbles}}{\text{Total}} = \frac{2}{7}$ $\frac{\text{Bubbles}}{140} = \frac{2}{7}$ <p>7 Bubbles = 280 Bubbles = 40 candies</p> $\frac{\text{Buttercup}}{\text{Total}} = \frac{4}{7}$ $\frac{\text{Buttercup}}{140} = \frac{4}{7}$ <p>7 Buttercup = 560 Buttercup = 80 candies</p> <p>Buttercup - (Blossom + Bubbles) = 80 - 20 - 40 Buttercup - (Blossom + Bubbles) = 20 pieces</p> 
35	<p>E</p> <p>Given: 4 days from today = Sunday Yesterday = ?</p> <p>Solution: Today = Wednesday</p> <p>Yesterday = Wednesday - 1 day Yesterday = Tuesday</p>

Scholarly

