ANSWER KEY

QUESTION	CORRECT ANSWER
	D Given: 54 km per liter Cost \$15.5 per liter 378 km
1	Solution: Petrol needed = $\frac{378}{54}$ Petrol needed = 7 Liters
	Cost = 7(15.5) Cost = \$108.50
2	E Given: Bag = \$19.95 3 Shirt for \$8.6 each Left = \$16.5 Solution: Total = 16.5 + 19.95 + 3(8.6)
	Total = \$62.25 B Given:
3	3 notebooks = \$19.5 7 notebooks = ? Solution: 3 notebooks = \$19.5 1 notebook = $\frac{19.5}{3}$ 1 notebook = \$6.5 7 notebooks = \$6.5 7 notebooks = \$45.50

4	C Given: 96 cakes were sold for \$51 each Spent $\frac{1}{8}$ for ingredients Solution: Spent on ingredients = $51(96)(\frac{1}{8})$ Spent on ingredients = \$612
5	D Given: Drawing = \$4 6 drawings he spends \$2 for supplies Solution: $18 \text{ drawings} = ?$ Profit = $18(4) - (\frac{18}{6})(2)$ Profit = $72 - 6$ Profit = \$66
6	E Given: 8 rows of apps Each row have 8 apps \$1.5 per app Solution: Numbers of apps = 8 x 8 Numbers of apps = 64 apps Cost = 64(1.5) Cost = \$96
7	B Given: Gas = \$32 ← for 9 lawns Charge per lawn = \$11 Solution: Profit = 11(9) - 32 Profit = \$67

8	B Given: 7 boxes with 9 kg mass per box \$20 handling fee for all 7 boxes plus \$3 per kg Solution: Total cost = 20 + 7(9)(3) Total cost = 20 + 189 Total cost = \$209
9	D Given: 9 boxes of bolts 1 box = 12 bolts then buys 4 more bolts 20 cents per bolts Solution: Number of bolts = 9(12) + 4 Number of bolts = 112 bolts Cost = 112(0.2) Cost = \$22.40
10	A Given: Bag = \$42.25 35% off Solution: Let X = regular price of the bag X - (0.35)(X) = 42.25 0.65X = 42.25 X = \$65

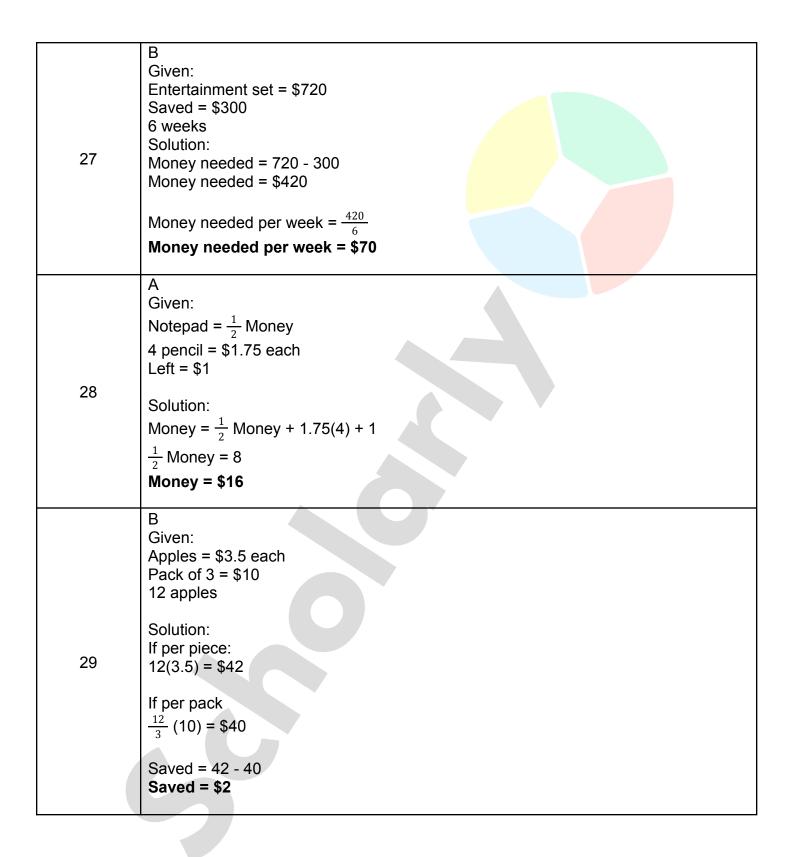
11	E Given: Biscuits = 65% Drinks = 12% Left = \$18.40 Solution: Left in percentage = 100% - 65% - 12% Left in percentage = 23% Let M = money 0.23M = 18.4
	M = \$80
12	B Given: $5 \text{ bags} = \$22$ $1 \text{ bag} = 5 \text{ apples}$ Solution: Number of apples = $5 \times 5 = 25 \text{ apples}$ Average cost = $\frac{22}{25}$ Average cost = $\$0.88 \text{ or } 88 \text{ cents}$
13	D Given: \$5 off when buying 3 books Each book = \$7 Solution: Cost = 7(3) - 5 Cost = \$16
14	C Given: Premium = \$4 If only a customer pays \$2 subscription per month for 7 months Solution: Total cost = 2(7) + 4 Total cost = \$18

15	A Given: cheese = 15 cents per gram Burrito = 8 grams Taco = 3 grams Solution: Total cheese = 8(5) + 3 Total cheese = 43 grams Cost = 43(0.15) Cost = \$6.45
16	E Given: Game = \$36 \$6 monthly Played for 8 months Solution: Total = 36 + 8(6) Total = \$84
17	C Given: Hotdog = \$1.5 Chips = 75 cents or \$0.75 Soda = \$2.2 Left = \$4.55 Solution: Money = 1.5 + 0.75 + 2.2 + 4.55 Money = \$9

18	A Given: Baseball cards = $\frac{3}{8}$ Money Snacks = $\frac{1}{4}$ Money Left = \$13.5 Solution: Left on fraction = Money - $\frac{3}{8}$ Money - $\frac{1}{4}$ Money
	Left on fraction = $\frac{3}{8}$ Money $\frac{3}{8}$ Money = 13.5 3 Money = 108 Money = \$36
	Baseball cards = $\frac{3}{8}$ Money Baseball cards = $\frac{3}{8}$ (36) Baseball cards = \$13.50
19	B Given: Candy bar = \$6 12 candy bars Sold all but seven candy bars
	Solution: Sold = 6(12 -7) Sold = 6(5) Sold = \$30
20	C Given: Earns \$7.5 per hour Total Friday and Saturday = \$112.5 Friday = 7 hours Solution: Let X = time on Saturday 112.5 = 7.5(7) + 7.5(X) 112.5 = 52.5 + 7.5X 7.5X = 60 X = 8 hours

21	B Given: Withdrew = \$800 in 20 dollar bill denomination Solution: Number of 20 dollar bills = $\frac{800}{20}$ Number of 20 dollar bills = 40
22	E Given: Jack + Jill = \$152 Jack = Jill + 24 Solution: Jill + 24 + Jill = 152 2 Jill = 128 Jill = \$64
23	A Given: Money \$104 Video game = 45% Cap = 35% Snacks = Rest Solution: Percentage on snacks = 100% - 45% - 35% Percentage on snacks = 20% Snacks = 0.20 (104) Snacks = \$20.80

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24	D Given:
	Notepads = $\frac{1}{3}$ Money
	Toolbox = $\frac{3}{4}$ of remaining
	Left = \$16
	Solution:
	Money - $\frac{1}{3}$ money = $\frac{2}{3}$ money \leftarrow After buying notepads
	$\frac{2}{3}$ money $-\frac{2}{3}$ money $(\frac{3}{4}) = \frac{1}{6}$ Money \leftarrow After buying toolbox
	$\frac{1}{6}$ Money = 16
	Money = \$96
	С
	Given:
	Money = \$88 Candy bar = \$12
	3 packs of gum
	Left = \$57.4
25	Solution:
	3 packs of gum = 88 - 12 - 57.4
	3 packs of gum = 18.6
	Each pack of gum = $\frac{18.6}{3}$
	Each pack of gum = \$6.20
	E
	Given:
26	Monthly income = \$2680
	5% = savings 9 months
	3 monus
	Solution:
	9 months savings = 2680(9)(0.05) 9 months savings = \$1 206
	7 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -



30	D Given: Apricots = \$8.5 per kg \$40 = ? Solution: Number of kilograms = 40/8.5 Number of kilograms = 4.71 ← Round down since we can only buy per whole kg Therefore the answer is 4 kg
31	E Given: Doll = \$12 Save \$5 Saves 35 cents per day Solution: Money needed = $12 - 5$ Money needed = $$7$ Number of days = $\frac{7}{0.35}$ Number of days = 20 days
32	A Given: 4 Wrenches + 3 Screwdrivers = \$47.5 8 Wrenches + 7 Screwdrivers = \$99.5 Solution: 8 Wrenches + 7 Screwdrivers - [(2)(4 Wrenches + 3 Screwdrivers)] = 1 Screwdriver 1 Screwdriver = 99.5 - 2(47.5) 1 Screwdriver = \$4.50
33	B Given: Amy has five \$50, five \$20 and eleven \$5 Solution: Total money = 5(50) + 5(20) + 11(5) Total money = \$405

34	D Given: 7 almonds + 5 Macadamia = \$41 3 almonds + 2 Macadamia = \$17 Solution: (7 almonds + 5 Macadamia) - [(2)(3 almonds + 2 Macadamia)] = 1 almond + 1 Macadamia 1 almond + 1 Macadamia = \$7
35	E Given: Blender = $\frac{3}{5}$ money Ice cream = $\frac{1}{2}$ remaining Left = \$27.20 Solution: Let M = Money M - $\frac{3}{5}$ M = $\frac{2}{5}$ M \leftarrow After buying the blender $\frac{2}{5}$ M - $\frac{2}{5}$ M($\frac{1}{2}$) = $\frac{1}{5}$ M \leftarrow after buying ice cream $\frac{1}{5}$ M = 27.20 M = \$136
36	E Given: Bert + Ernie = \$50 After Bert spent \$20 and Ernie spent \$10 theory have now equal money Solution: Let B = Bert money Ernie = 50 - B B - 20 = E -10 B - 20 = (50 - B) - 10 2 B = 60 B = \$30

37	C Given: 9 Roses + 5 Lilies = \$62 2 Roses + Lily = \$13 Solution: (9 Roses + 5 Lilies) - (4)(2 Roses + Lily) = 1 Rose + 1 Lily 1 Rose + 1 Lily = 62 - 4(13) 1 Rose + 1 Lily = \$10 3 Roses + 3 Lilies = 10(3) 3 Roses + 3 Lilies = \$30
38	B Given: Huey + Dewey + Louie = \$88 Dewey = Huey + 8 Louie = 2 Dewey Solution: Huey + Dewey + Louie = \$88 (Dewey - 8) + Dewey + 2 Dewey = 88 4 Dewey = 88 + 8 4 Dewey = 96 Dewey = \$24 Huey = Dewey - 8 Huey = 24 - 8 Huey = \$16
39	D Given: Money = 4 Gums If price of gum is \$1 each less he can buy 1 moore pack Solution: Let X = price of gums $4X = 5(X - 1)$ $4X = 5X - 5$ $X = 5

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A
Given:
3 Regular + 4 Fancy = $50
5 Regular + 8 Fancy = $94

Solution:
[(2)(3 Regular + 4 Fancy)] - (5 Regular + 8 Fancy) = 1 Regular
1 Regular = 2(50) - 94
1 Regular = $6

3 Regular + 4 Fancy = $50
3 (6) + 4 Fancy = $50
4 Fancy = 32
Fancy = $8

Fancy - Regular = 8 - 6
Fancy - Regular = $2
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