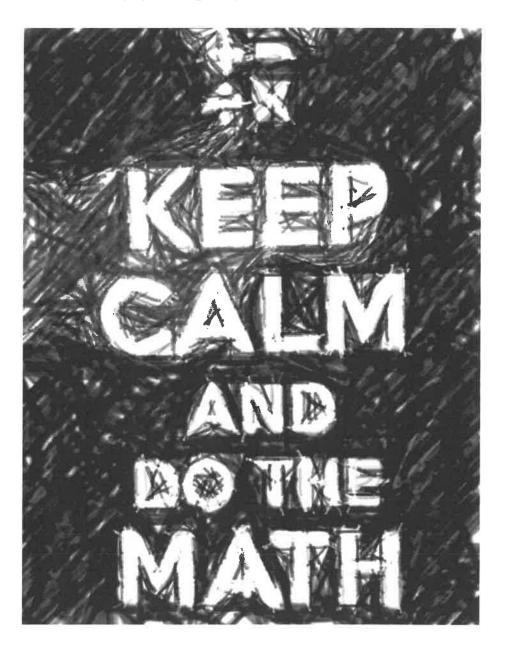
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Math P.A.T. Prep

Solving Problems that Involve Money / Wages / Taxes- SOLUTIONS



St. Brendan School Mr. Martinez

Solving PROBLE	EMS THAT
Colving RODE MONEY	1/WAGES/RATES
	1: 000 6000
THESE WILL one or many Number PESPONSE. One or many house or many house one or many house of the hous	"Least," "minimum", "maximum"
Fire Commence Character of the St. East.	
A store owner pays a sales clerk \$12/h for each hour worked. The assis store earns one-and-a-half times the clerk's hourly wage and the mana two-and-a-half times the clerk's hourly wage.	stant manager of the ger of the store earns

iumerical Response

In total, how much money is paid to the three employees in one day if the sales clerk, the assistant manager, and the manager each work 7.25 h?

. What do I Know/have? Sales clerk makes 12 \$ per hour

Assistant makes 1.5 times more & Manager makes 1.5 times more &

. total Money Paid

= 12 × (2.5) = 30 \$/h

Sales Clerk = 12 \$\frac{4}{K} \times 7.25 \h = \$\frac{487}{130.52}\$ thesi

Assitant Manager = 18\$\frac{1}{h} \times 7.25 \h = \$\frac{4}{130.52}\$

Manager = 30 \$\frac{1}{h} \times 7.25 \h = \$\frac{1}{2} 217.54

Tara, Jennifer, and Mindy donated some money to a charity. Jennifer donated twice as much as Tara, and Mindy donated \$10 less than Jennifer. If the total amount donated to the charity is \$50, then how much money did Tara donate? 17. \$6 Α. \$8 В. C. \$12 \$24 D. Connie buys a horse for \$750 (including GST). She considers the two payment plans shown below. Plan 1 Pay \$150 now and \$25 each month Plan 2 Pay \$200 now and \$55 each month How many **fewer** monthly payments could Connie make if she selects Plan 2? \$750 -> \$150 + (25 m) -> 600, then m= 24 months \$ 200 + (55m) = 550, the m = 10 months 14 B. C. 20 D. 24 The following list shows Rick's yearly vehicle expenses. \$1 200 • Insurance: \$1 300 • Gasoline: \$850 Repairs: If Rick works 8 hours/day, 5 days/week, and takes home \$10/hour, then what is the least number of complete weeks he must work in order to pay for all his yearly Must pay \$ 3350 8 hours/1x 5 days/weeks = 40 hours/week vehicle expenses? A. 6 weeks 7 weeks В. 40 hours/week x \$10/hour = 400\$ week C. 8 weeks 3350/400 = 8.375 weeks -> 9 week D. 9 weeks Tim buys 2 kg of almonds at \$5.49/kg and 4 kg of cashews at a store that includes GST in its prices. If the cost of his purchase is \$25.50, then the price of 1 kg of 2 kg x \$5.49/kg = \$10.98 almonds cashews is \$3.63 \$ 25.50 = \$10.98 almonds + (4 kg cashows) A. B. \$7.26 \$10.98 C. \$14.52 for 4 kg cashews D. \$14.52 × - 1 K9 [\$ 3.63/

In one month, Dale earned \$180.00. Homowing lawns.	He earned \$45.00 by washing cars, and the rest by
umerical Response	Total Eagned = \$180
50	\$ 180 = \$ 45 + Laws
How many lawns did Dale mow i	f he received \$9.00 for each lawn that he mowed?
Answer: lawns	180 - 45 = \$ 135 laws money
	\$ 135/87/Dawn -> (5 lawns)
	Alan, Bob, and Charles worked together on a job and earned a combined total of \$380. Alan earned \$40 less than Bob. Charles earned twice as much as Alan.
Set up an equation	perical Response alan + B + C = 380 since Alan
(B-40) + B + 2(B-48): 350	erical Response alan + B + C = 380 Since Alan B-40 > 24 earned \$ 40 day then:
B-40+B+2B-80=380	How much did Alan earn?
0-70+8725-80-80	Answer: \$ 85
4B-120=380 =>	4 B=\$125
48= 380+120	(Record your answer in the numerical-response section on the answer sheet.)
what is the minimum number of time the camera?	Emy needs: \$235 - \$50 = \$185 8 185 8 Amy must babysit her sister in order to earn enough money to purchase
Answer:times	
(Record your answer in the numeri	A piggy bank contains only quarters and pickels, and there is a total of 60 animal
025 / 205 / 6 × -7 110	A piggy bank contains only quarters and nickels, and there is a total of 60 coins. The total value of the coins in the bank is \$7.40.
$0.25 \times + 0.05 (60 - x) = 7.40$ $0.25 \times + 3 - 0.05 \times = 7.40$	025 × 1005 × 740
0.00X = 4.40	nerical Response and $\frac{0.25 \times + 0.05 \text{ y}}{2.40} = 7.40$
(X - 4.40 - 20)	How many quarters are in the piggy bank?
0.3	Answer: 22 y-nickels
	e skates that cost \$250 including GST. She already has hase. She earns \$10.25/hour at her part-time job.
umerical Response	Patricia needs = 250 - 86 = \$364
	at \$10.25 per hour
What is the minimum number of he the pair of ice skates?	ours that she must work to save enough money to purchase
the pair of ice skates!	164 = 16 hours
Altroop 10 hours	In O.E.

39.

Jennifer wants to buy a computer that costs \$2 000, including all taxes. She will make a down payment of \$500 and arrange to make 5 equal payments for 4 constant the balance owing.

Which of the following expressions can Jennifer use to determine the amount of each of the 5 equal payments?

B.
$$(\$2\ 000 - 500) \times 5$$

C.
$$(\$2\ 000 \times 5) - 500$$

p.
$$(\$2\ 000 \div 5) - 500$$



Emily's cellphone plan charges her \$0.05 per text message, \$0.06 per minute of voice usage and a \$5.00 base fee each month.

What is Emily in one month?

What was the initial height of the tree in centimetres?

cellphone bill if she sent 33 text messages and talked for 47 minutes

Suppose bill if she sent 33 text messages and talked for 47 minutes

flat fee
$$\Rightarrow$$
 5 + 0.05t + 0.06m

flotal: 5 + 0.05(33) + 0.06(47)

 \Rightarrow 5 + 1.65 + 2.82



Rahim plants a tree in his yard and records its initial height. The height of the tree at the end of the first growing season is 1.3 times its initial height. In the second growing season, the tree grows 14.5 cm to reach a total height of 71.7 cm.

1st season 1.3 × 14.5 71.7 cm

1.3x + 14.5 = 71.7cm

(x= 44 cm) 572

(Record your answer in the numerical-response section on the answer sheet.)

On a bike trip, Patrick rides at a constant speed of 14.4 km/h for $\frac{3}{4}$ of an hour and then at a constant speed of 13.2 km/h for $\frac{1}{3}$ of an hour.

How many kilometres in total did Patrick travel on the bike trip?

13.2 Km/y x 1 K = 4.4 Km

total = 15.2 Km