1	The total daily cost of operating the roller coaster at Dreamworld is \$600 plus 50 cents per person who rides the roller coaster.					
	On a particular day, a total of 1 500 people pay an average of \$2 to ride the roller coaster.					
	How much was the profit of the roller coaster on that day? (Profit = Revenue – Expenses)					
	A \$2 400	D \$900				
	B \$2 250	E \$150				
	C \$1 650					
2	The cost of renting a van for a weekend road trip is D dollars, which will be shared equally among the people joining the trip.					
	If 8 people instead of 12 will join the trip, which expression gives how many more dollars, in terms of D , will it cost per person?					
	A 4D	D D/4				
	B 2D	E D/24				
	C D/3					
3	According to new regulations, a returning tourist must pay an 8 percent tax on the first \$400 or less of imported goods and a 10 percent tax for the total value in excess of \$400.					
	If a returning tourist pays \$98 in tax, what is the value of the imported goods the tourist is bringing into the country?					
	A \$880	D \$1 060				
	B \$900	E \$1 380				
	C \$980					

4 A vendor sells an item at a 20 percent markup in price. If the vendor sells the item for \$12, how much did the vendor pay for the item? **A** \$14.40 **D** \$9.60 **B** \$14.00 **E** \$5.00 **C** \$10.00 A merchant wants to make a profit of \$75 when he sells 700 widgets. 5 It costs 65 cents to make the first 100 widgets and 55 cents to make each widget after the first 100. What price should the merchant charge for the 300 widgets? **A** \$75 **D** \$240 **B** \$175 **E** \$250 **C** \$225 It costs \$50 to manufacture a radio. 6 The radio was initially put on sale at 108 percent of its manufacturing cost. A week later, the initial selling price was discounted by 10 percent, and the radio was sold. The radio was sold at what price? **A** \$45.00 **D** \$49.50 **B** \$48.60 **E** \$54.00

C \$49.00

7 Penelope earns \$5.50 per hour on days other than Sundays and twice on Sundays.			s other than Sundays and twice that rate		
		If Penelope worked a total of 50 hours last week, including 10 hours on Sunday, what were her earnings last week?			
		A \$275	D \$385		
		B \$330	E \$42 <mark>5</mark>		
		C \$350			
	is \$85 for the first kilometre and \$5 per				
		If the total cost of the ride was \$365, ho	w many kilometres were the ride?		
		A 55 kilometres	D 58 kilometres		
		B 56 kilometres	E 59 kilometres		
		C 57 kilometres			
	9 Cookie Monster sells cupcakes and brownies.				
	ownie sells for \$4.				
If Cookie Monster sold 8 cupcakes and brownies for \$34, how man he sell?			brownies for \$34, how many brownies did		
		A 2 brownies	D 5 brownies		
		B 3 brownies	E 6 brownies		
		C 4 brownies			

10	A returning tourist can import goods with a value of \$600 or less tax-free.							
	But if the value of the imported goods exceeds \$600, the tourist must pay a 1 percent tax on the portion of the value in excess of \$600.							
	How much tax must a returning tourist pay who imports goods valued at \$870?							
	A \$35.50	D \$90.00						
	B \$40.50	E \$130.50						
	C \$45.00							
11	Jake earns a fixed rate per hour for the first 40 hours he works and \$30 for each hour he works after the first 40 hours.							
If Jake works for 48 hours and earns \$920, how much was he paid per I the first 40 hours he worked?								
	A \$15	D \$18						
	B \$16	E \$19						
	C \$17							
12	ACME Corporation reported total sales	of \$768 million for this year.						
	If the reported total sales for last year were \$640 million, what was the percentage increase in total sales this year compared to last year?							
	A 5 percent	D 20 percent						
	B 15 percent	E 24 percent						
	C 17 percent							
13	Chocolate cupcakes sell for \$2 each, a	nd vanilla cupcakes sell for \$1 each.						
If Big Bird buys 18 chocolate cupcakes and 12 vanilla cupcakes, what is average (arithmetic mean) price he pays per cupcake?								
	A \$1.20	D \$1.60						
	B \$1.40	E \$2.00						
	C \$1.50							

14 Betty and Veronica together have \$278 to spend at the mall. Betty spends \$8 on a pair of socks, at which point she has twice as much money as Veronica, who has not yet spent any of her money. How much money does Betty initially have? **A** \$188 **D** \$135 **B** \$147 **E** \$131 **C** \$139 15 For the premiere night of the new Avengers movie, 560 tickets were sold for a total of \$21 500. If a balcony seat ticket costs \$25 and an orchestra seat ticket costs twice as much as a balcony seat ticket, how many of the tickets sold were balcony seat tickets? **D** 325 tickets A 235 tickets E 358 tickets **B** 260 tickets C 300 tickets 16 The new law requires a returning tourist to pay an 8 percent tax on the first \$500 or less worth of imported goods and a 15 percent tax for the total value in excess of \$500. How much tax must a returning tourist pay who imports goods valued at \$720? **A** \$33 **D** \$92 **B** \$70 **E** \$108 **C** \$73

17 It costs **D** dollars to buy **B** equally priced books.

Which expression gives the number of books that can be bought with \$40?

A 40**B/D**

D (B + 40)/D

B 40**BD**

 $E (B - \frac{40}{D})$

C D/40**B**

18 A plumber charges \$8 per hour for the first 8 hours and 3/2 times that rate for each hour in excess of the first 8 hours.

If the plumber was paid \$80 yesterday, how many hours did the plumber work yesterday?

A 6 hours 40 minutes

D 9 hours 40 minutes

B 9 hours 20 minutes

E 10 hours

C 9 hours 30 minutes

19 A worker is paid M dollars for the first 8 hours he works each day.

If he works more than 8 hours a day, he is paid **N** dollars per hour for each hour he works in excess of 8 hours.

Last week, he worked 8 hours on Monday, 11 hours on Tuesday, 9 hours on Wednesday, 10 hours on Thursday, and 9 hours on Friday.

Which expression gives the worker's average (arithmetic mean) daily wage, in dollars, last week?

A M +1.4**N**

D 8M + 1.4N

B 2M + N

E 5M + 7N

C (5M + 8N)/5

20 The cost of staying at the motel is \$18 per day for the first week and \$10 for each additional day after the first week.

How much does it cost to stay at the motel for 23 days?

A \$160

D \$286

B \$274

E \$289

C \$282

21 On any given day, Elmo is paid \$6 per hour for the first 8 hours he works and 1 1/2 times that rate for each hour in excess of the first 8 hours.

If Elmo worked 10 hours yesterday, what was his average (arithmetic mean) hourly wage yesterday?

A \$6.60

D \$8.50

B \$7.50

E \$9.00

C \$8.40

22 A litre of paint costs \$3.20 and is enough to paint an area of 20 square metres.

How much will it cost to paint the outside of a cube 10 metres on each edge?

A \$1.60

D \$108.00

B \$16.00

E \$196.00

C \$96.00

23 At Greendale Pizzeria, each pizza cost \$11.

In addition, each additional pizza topping costs \$4 for the first pizza ordered and \$3 for each additional pizza ordered.

If Archie ordered **P** pizza and each pizza had exactly one additional pizza topping, which expression gives the total dollar cost for the pizza Archie ordered?

A 11P + 1

D 14P + 2

B 11P+4

E 14P+4

C 14P + 1

24 Homer Simpson is buying a new TV that has a sticker price of \$455.

The sales tax for the TV comes out at 5 percent, but Homer Simpson is able to negotiate a purchase price that is a 20 percent discount off the sticker price.

How much sales tax did Homer Simpson pay for the new TV?

A \$4.55

D \$18.20

B \$9.10

E \$22.75

C \$15.60

25 Michael is paid **D** dollars per hour for the first 8 hours he works in a day and **C** dollars for every hour after the first 8 hours.

Last week, Michael worked 12 hours on Monday, 7 hours on Tuesday, 11 hours on Wednesday, 6 hours on Thursday, and 4 hours on Friday.

Which expression gives the dollar amount of Michael's average (arithmetic mean) hourly wage last week?

$$A 40D/(40 + C)$$

D (33D + 7C)/40

$$B 8(D + C)$$

E D+C

$$C (8D + 8C)/5$$

26 A piggy bank contains only 5-cent coins, 10-cent coins, and 20-cent coins.

There are four times as many 5-cent coins as 10-cent coins and twenty fewer 20-cent coins than 5-cent coins in the piggy.

If the total value of the coins in the piggy bank is \$5.90, how many 20-cent coins are there?

A 19

D 15

B 18

E 14

C 16

27	7 Each post-it pad costs 70 cents and each sharpener costs 50 cents at the sch supply store.								
	If Barbie spent \$6.30 on post-it pads and sharpeners and purchased at least or of both items, how many post-it pads and sharpeners did she buy?								
		9	D	12 13					
		11	_	13					
28	At the Walk for A Cause charity event, Jiminy Cricket can raise 75 cents for even kilometre he walks.								
If Jiminy Cricket was able to raise \$18 during the event, how many kilomet he walk?									
	Α	12 kilometres	D	22	kilometres				
	В	18 kilometres	E	24	kilometres				
	С	21 kilometres							
29	We Ship It Right charges a handling fee of 75 cents when shipping an item we \$25 or less and a handling fee of \$1 when shipping an item worth over \$25.								
	If Hermes shipped three items worth \$18.25, \$25, and \$127.50, respectively, he much handling fee must he pay?								
	Α	\$1.75	D	\$2.	75				
	В	\$2.25	Ε	\$3.	00				
	С	\$2.50							

30 The fixed monthly operating cost of a computer store is \$5 000.

If the store buys each computer for \$600 and sells it for \$900, what is the least number of computers the store must sell each month to cover the fixed monthly operating cost?

A 14 computers

B 15 computers

C 16 computers

D 17 computers

E 18 computers