"Math Is Cool" Championships — 2020-21

4th Grade — March 24, 2021 Sponsored by: Avista Utilities

Team Multiple Choice Contest

USE THE FOLLOWING INFORMATION TO SOLVE PROBLEMS #1 THROUGH #6.

Math-a	-Mask Er	nporiun	n Prices]
Mask Theme		Cost bought		Cost as a pack		1
		separately				
Solid Color		\$11.00		4 for \$35.00		
Flowers		\$12.00		3 for \$31.50		
Math equations		\$12.50		4 for \$42.00		
Sports Team		\$15.00		5 for \$85.00		
Double Sided		\$17.00		6 for \$69.00]
Designer Label		\$20.00		2 for \$30.00]
A) \$9.00	chased sep B) \$8	·	C) \$10.00	D) \$10.50	E) Ans	swer not given.
math mas	ks. How m	any mas	sks did she buy	y in total?		le-sided masks, and 3 packs of
A) 40 mas	sks B) 25	masks	C) 20 masks	D) 15 masks	E) Ans	swer not given.
Lillian bou did Lillian	•	owered	masks, one sp	oorts team ma	sk, and :	3 solid color masks. How much
A) \$39	B) \$5	0	C) \$64	D) \$72	E) Ans	swer not given.
		•	designer mas		ith equa	ition mask. He paid with a \$50

1

2

3

A) \$7.50

Which mask pack gives the biggest discount per mask compared to the same type sold separately?

D) \$42.50

A) Solid Color B) Flowers C) Double-Sided D) Designer Label E) Ans

C) \$19.50

bill. How much money did Jose receive in change?

B) \$8.50

E) Answer not given.

E) Answer not given.

- During the Mathemagic Mask Sale all single masks are 20% off and mask packs are 30% off. How much in dollars would 8 Math Equation masks and one double sided mask cost if purchased in the cheapest way possible during the sale?
 - A) \$70.70
- B) \$72.40
- C) \$90.90
- D) \$93.60
- E) Answer not given.

USE THE FOLLOWING INFORMATION TO SOLVE PROBLEMS #7 THROUGH #10.

10 Largest California Wildfires in History							
Size Rank	Name of Fire	Thousands of Acres Burned	Year of Fire				
1	August Complex	1030	2020				
2	Mendocino Complex	460	2018				
3	SCU Lightning Complex	400	2020				
4	Creek	380	2020				
5	LNU Lightning Complex	360	2020				
6	North Complex	320	2020				
7	Thomas	280	2017				
8	Cedar	270	2003				
9	Rush	270	2012				
10	Rim	3	2013				

- 7 What percent of the ten largest California wildfires occurred during the year 2020?
 - A) 10%
- B) 50%
- C) 60%
- D) 90%
- E) Answer not given.
- Rounded to the nearest ten-thousand, what is the average number of acres burned in the 5 largest California wildfires that occurred in the year 2020?
 - A) 380 thousand acres
- B) 410 thousand acres
- C) 480 thousand acres

- D) 500 thousand acres
- E) Answer not given.
- 9 Rounded to the nearest ten-thousand, the average of the 5 smallest fires on the list is 280 thousand acres burned. How many acres were burned in the Rim Fire of 2013?
 - A) 260 thousand acres
- B)250 thousand acres
- C) 230 thousand acres

- D) 200 thousand acres
- E) Answer not given.

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- Besides the 2020 fires listed in the table, an <u>additional 1,870 thousand acres</u> burned in California in the year 2020 that are not included in the table. The size ratio of the **2020** California wildfires to the 2019/20 Australian fires is 4:11. Using this ratio, approximately how many acres burned in Australia during the 2019/20 fire season, rounded to the nearest ten-thousand?
 - A) 10 thousand acres B) 12,000 thousand acres C) 11,990 thousand acres
 - D) 12,400 thousand acres E) Answer not given.