N	2	m	ρ
N	6	m	0

1.	Maggie is rock climbing. After reaching
	the summit, she descends 14 feet
	in $2\frac{1}{3}$ minutes. If she continues at this
	rate, where will Maggie be in relation
	to the summit after 8 minutes?

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- 2. Oscar rides his skateboard $\frac{S}{8}$ mile in $\frac{1}{4}$ hour. How fast, in miles per hour, does he ride his skateboard?
 - \triangle $\frac{5}{32}$ mile per hour
 - B $\frac{2}{5}$ mile per hour
 - © $2\frac{1}{2}$ miles per hour
 - ② 3 miles per hour
- 3. Jorge finds that 56% of his 75 classmates like salsa music and 80% of his 60 relatives like salsa music. How many more of Jorge's relatives, as compared to his classmates, like salsa music?
 - (A) 6
- © 42
- **B** 8
- D 48
- 4. There are 9.5 ounces of juice in a container. An additional 1.75 ounces of juice are poured into the container each second. How many ounces of juice are in the container after 6 seconds?
 - A 11.25 ounces
 - B 17.25 ounces
 - © 20 ounces
 - © 57 ounces

A game of chance has a spinner with five equal-sized sections. The results of 625 spins are shown below.

Color	Frequency
Orange	118
Purple	137
Brown	122
Yellow	106
Green	142

Part A

For which color is the experimental probability closest to the theoretical probability? Explain.

		-

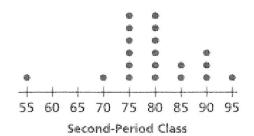
Part B

For which color is the difference between the theoretical probability and experimental probability greatest? Explain.

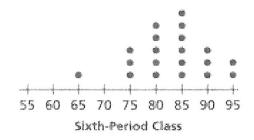
Pyne Arts Entering Grade 8 Summer Review Page 2

6. Rose bought a bag of potatoes for \$6.00 and some granola bars for \$5.25 per package. Her total bill was \$74.25. How many packages of granola bars did she buy?

7. The following dot plots describe the



test scores on Mr. Santos's final exam.



Form a valid inference based on the means of the data sets.

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 Select all the figures that could represent the cross section of a rectangular pyramid.

Circle

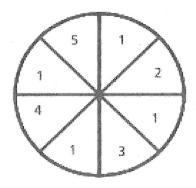
Cube

Rectangle

Square

Triangle

In a game of chance, players spin the pointer of a spinner with eight equal-sized sections.

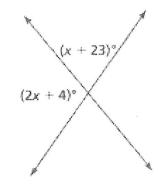


What is the probability that the pointer will land in an odd-numbered section?

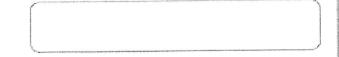
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- 10. Silas has 5½ cups of flour. He uses 3½ cups to bake bread, then he borrows another 2 cups from his neighbor. He wants to bake cookies, which take 2¾ cups of flour. Does he have enough? How much will he have left over, or how much more does he need?
 - lack A Yes, he has $\frac{1}{4}$ cup left.
 - No, he needs 1 cup more.
 - © Yes, he has 1 cup left.
 - No, he needs $\frac{1}{4}$ cup more.

- 11. Wyatt uses 3.15 cups of flour in a recipe that makes 9 shortcakes. Cora uses 2.4 cups of flour in a recipe that makes 8 shortcakes. How much more flower per shortcake is needed for Cora's recipe?
 - (A) 0.05 cup
- © 0.25 cup
- (B) 0.20 cup
- © 0.50 cup
- 12. Two lines are intersecting. What is the value of x?



13. Caleb's puppy weighs 2,250 grams. If the puppy weighed 600 grams at his last visit to the veterinarian's office, what is the percent increase in the puppy's weight rounded to the nearest whole number?



14. Simplify the expression below:

$$3(7x) - 2(4-x)$$

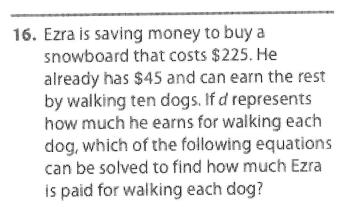
- (A) 13 2x (C) 23x 8
- (B) 13 + 2x (D) 20x 8

15. Of all sixth graders, 70% sent a text message yesterday. Ten trials of a simulation are conducted and the data are recorded below.

> 62072, 34570, 80983, 04292, 83150, 36330, 96268, 14077, 77985, 13511

The numbers 0 through 6 represent students who sent a text yesterday, and the numbers 7 through 9 represent students who did not send a text yesterday.

Based on the simulated data, what is the probability that 3 or more of a group of 5 students randomly selected will send a text today? Explain.



$$\bigcirc$$
 225 = 45 d - 10

(B)
$$225 - 45 = 10d$$

©
$$25 + 45 = 10d$$

$$\bigcirc$$
 45 = 225 - d

17. Ivy randomly surveys students in her school to learn about mobile phone password use. Of 25 respondents, 14 use a password.

Part A

Based on Ivy's data, how many of the 275 students in her school would be expected to use a password?

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Part B

If Ivy conducted her survey of 25 students on a volunteer basis, are the results representative of the school? Why or why not?

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18. A probability model includes $P(\text{red}) = \frac{2}{7} \text{ and } P(\text{blue}) = \frac{3}{14}. \text{ Select all }$ the probabilities that could complete the model.

	P(green)	unique? Restora	$\frac{2}{7}$, $P(yellow)$	smerane rationers	7
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$$P(green) = \frac{3}{8}, P(yellow) = \frac{1}{8}$$

$$P(green) = \frac{1}{4}, P(yellow) = \frac{1}{4}$$

$$P(green) = \frac{5}{21}, P(yellow) = \frac{11}{21}$$

$$P(green) = \frac{3}{7}, P(yellow) = \frac{1}{14}$$

The numbers of blue and green beads Emma uses to make 5 different pieces of jewelry are recorded below.

Blue	4	8	12	16	20
Green	7	14	21	28	35

Which of the following equations relates the number of green beads, q, to the number of blue beads, b?

(B)
$$b = \frac{7}{49}$$

$$\bigcirc$$
 7g = 4b

20. Mia agrees to borrow a 3-year loan with 4% simple interest to buy a motorcycle.

Part A

If Mia will pay a total of \$444 in interest, how much money did she initially borrow?

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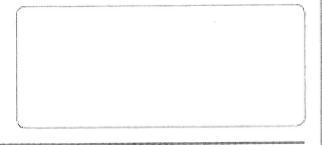
Part B

How much interest would Mia pay if the simple interest rate were 5%?

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	<u>*</u>

21. Solve the equation below.

$$3(17x - 6.5) = 108$$



22. A fire hydrant with a blue cap provides water at a rate of 1,500 gallons per minute. A fire hydrant with a green cap provides water at a rate of 1,000 gallons per minute. A fire hydrant with a purple cap provides water at half the rate of a fire hydrant with a green cap.

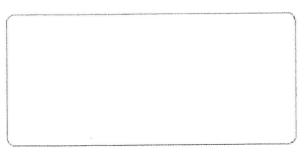
Part A

Write an equation to relate the flow of water from the blue hydrant, b, to the flow from the green hydrant, g.

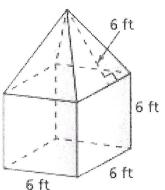
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Part B

Write an equation to relate the flow of water from the purple hydrant, p, to the flow from the blue hydrant, b.



23. Brooke paints the outsides of the square walls and triangular ceilings of her treehouse. What area does she paint?



)A	Three boys and four girls enter a
Bac Till 19	contest at the local movie theater.
	A randomly chosen winner will
	be awarded a free movie ticket, a
	collectible poster, or free popcorn.
	What is the probability that a girl
	will win free popcorn?

- (A) $\frac{3}{21}$
- B 4/21
- \bigcirc $\frac{3}{7}$
- © 4/7

25.	Five sixths of Teddy's cousins can
	do 15 push-ups in one set. Which
	decimal is equivalent to the fraction
	of Teddy's cousins who can do
	15 push-ups?

- Ø 0.4
- B 0.56
- © 0.83
- © 0.83

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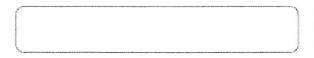
- 26. Conor buys 75 tokens for games at the arcade. The price to play each game is 3 tokens. If Conor has already played x games, which expression is equivalent to the number of tokens that remain?
 - (A) 3x 75
 - (B) 3(25 x)
 - © 3(25 + x)
 - ① 75 + 3x
- **27.** A family drives 325 miles per day during a road trip.

Part A

Write an inequality to find how many days, d, the family must drive to travel at least 1,300 miles.

Part B

For how many days must the family drive to travel at least 1,300 miles?



- 28. The wheels on Jason's dirt bike measure 19 inches in diameter. How many revolutions will the wheels make when Jason rides for 500 feet? Use 3.14 for π . Round to the nearest whole revolution.
 - 8 revolutions
 - B 21 revolutions
 - © 101 revolutions
 - ② 316 revolutions

- 29. Ms. Alvarez wants to determine the seventh graders' preferences for the location of the end-of-year field trip. Which of the samples is representative of the population?
 - All students in Ms. Alvarez's fifth-period class
 - All students in Ms. Alvarez's advisory group
 - © Every third student from an alphabetical list of all students in the entire school district
 - Every fifth student from an alphabetical list of all seventh graders in the school
- 30. A storage locker measures 8 feet wide, 12 feet deep, and 9 feet high. The monthly rental price for the locker is \$3.60 per cubic yard. How much does it cost to rent the locker each month? Explain.

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