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29.What is the slope of through the points	the line that passes (–1, 9) and (4, 6)?
$A -\frac{5}{3}$	C $\frac{1}{5}$
$B -\frac{3}{5}$	D 5
30.Which is the equation of the line in the graph? F $y = -2x - 3$ G $y = -\frac{3}{2}x - 3$ H $y = -3x - 1$ J $y = -\frac{2}{3}x - 1$	
31. Two of the three a triangle are given. measures of an ac	ngle measures in a Which are angle sute triangle?
A 11°, 79°	C 11°, 89°
B 11°, 59°	D 11°, 29°
32. Which polygon has rotational symmetric	s line symmetry but not y?
F rectangle	H rhombus
G square	J kite
33. Which are the leng obtuse triangle?	ths of the sides of an
A 8, 11, 15	C 11, 11, 15

B 9, 12, 15 D 10, 12, 15

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The figure represents the wooden truss used to support the roof of a garage. Use the figure for Exercises 18 and 19.



39.The figure represents a rectangular gate with diagonal braces. To the nearest tenth, what is the width, *QT*, of the gate?



40. To the nearest tenth, what is AP?



41. Starla is 5 feet 9 inches tall. To find the height of a tree, she measured her shadow and the tree's shadow. Her shadow was 8 feet long when the tree's shadow was 30 feet long. To the nearest foot, how tall is the tree?

F 15 ft	Н	28	ft
G 22 ft	J	42	ft

42. \overline{MN} with endpoints M(9, 3) and N(-1, 5) is dilated by a scale factor of 2.5. To the nearest tenth, what is the length of $\overline{M'N'}$?

A 16.1	C 25.5
B 17.9	D 28.3

43. To the nearest thousandth, what is tan77°?

F 0.225	H 0.974
G 0.231	J 4.331

Name	Date	Class
	44.When the angle of elevation to the sur 26°, a flagpole casts a shadow that is 82 feet long. What is the height of flagpole to the nearest foot?	
	F 36 ft	H 74 ft
	G 40 ft	J 1

45.What is the volume of a rectangular prism that is 4 inches wide, 9 inches long, and 3 inches high?

F 36 cm ³	H 324 cm ³
G 108 cm ³	J 432 cm ³

46. To the nearest tenth, what is the area of a sector of a circle of radius of 9 meters if the central angle is 50°?

A 1.3 m ²	C 35.3 m ²
B 5.1 m ²	D 70.7 m ²

Refer to the figure for Exercises 35 and 36.

47. m $PN = 78^{\circ}$,

 $mQN = 163.5^{\circ}$, and mMQ = 72°. What is m $\angle PRM$? F 47° H 94° G 57° J 105°

- 48. PR = 6, NR = 15, and QR = 14. To the nearest tenth, what is MR? A 5.6 C 6.4 B 6.0 D 7.0
- 49. Use the two way frequency table to determine the percentage of underclassmen (freshmen and sophomores) that like the cafeteria food.

	Freshmen	Sophomores	Juniors	Seniors	Totals
Liked Food	50	77	85	82	294
Didn't like food	92	56	44	78	270
	142	133	129	160	564
	A 23%	С	46%		
	B 35%	D	65%		



Bob's Points

C 11

D 12

A 8.5

B 10