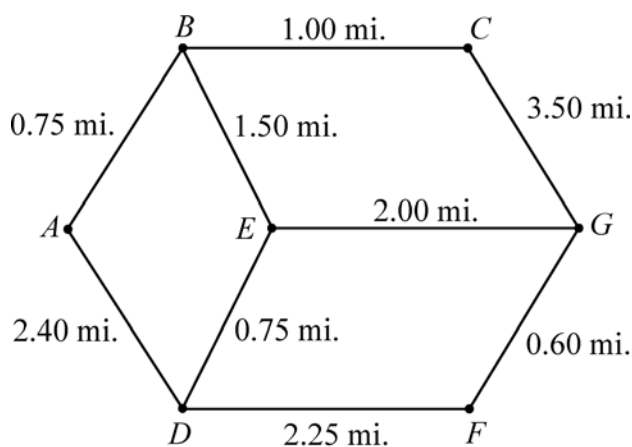


- 1 In which sequence of numbers does the numerator always decrease when the number is written in fractional form?

A 0.025, 0.005, 0.05, 0.5  
 B 0.3, 0.03, 0.08, 0.003  
 C 4, 0.5, 0.2, 0.001  
 D 8, 0.6, 0.04, 0.001

- 2 A delivery truck is making deliveries and needs to get across town. The map below shows the roads between points A and G and the length of each stretch of road.

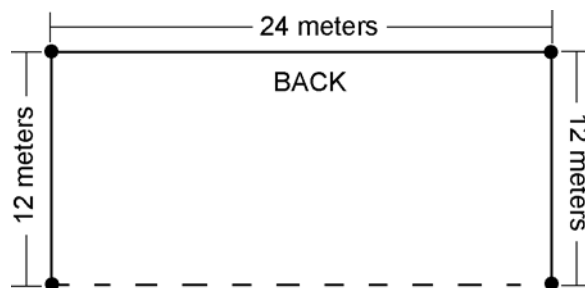


map not to scale

The driver is at point A and needs to get to point G. He wants to find a route to point G that is shorter than 5 miles. Through which points should the driver pass?

F A, B, C, G  
 G A, B, E, G  
 H A, D, E, G  
 J A, D, F, G

- GR Ryan is putting a fence around his backyard. The fence will go along one side of the yard, across the back, and then along the other side of the yard, as shown by the solid lines below. A fence post will be placed at each of the four corners, and then additional fence posts will be placed every 3 meters.



How many fence posts will be needed to complete the fence?

		1	7	.		
0	0	0	0		0	0
1	1	●	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	●		7	7
8	8	8	8		8	8
9	9	9	9		9	9

- 3 A car dealership has 80 cars on its sales lot.

**Cars on Sales Lot**

	Available	Sold
New	28	10
Used	30	12

What is the probability that a randomly selected car is already sold?

- A  $\frac{1}{8}$
- B  $\frac{11}{40}$
- C  $\frac{22}{58}$
- D  $\frac{11}{15}$
- 4 Emma throws javelin for her school's track team. At one meet she threw the javelin twice. On her first attempt, she threw the javelin 28 meters. On her second attempt, she threw the javelin 32 meters. What is the ratio between the length of her first throw and the length of her second throw?
- F 1 to 4
- G 1 to 2
- H 7 to 4
- J 7 to 8

- 5 Which table represents a situation where  $y$  is 2 more than 7 times  $x$ ?

A

$x$	$y$
2	16
4	30
6	44
8	58

C

$x$	$y$
1	21
3	35
5	49
7	63

B

$x$	$y$
2	18
4	22
6	26
8	30

D

$x$	$y$
1	5
3	19
5	33
7	47

- 6 Ryan and Jonathan are collecting marbles. They have 37 marbles between them. Ryan has 5 fewer than Jonathan. Let  $x$  represent the number of Ryan's marbles. Which equation would you use to find  $x$ ?

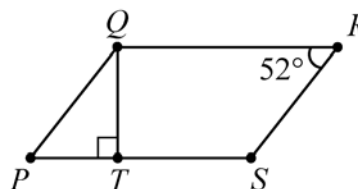
F  $x + (x + 5) = 37$

G  $2x - 5 = 37$

H  $x + (x - 5) = 37$

J  $x = (x + 5) - 37$

- 7 Parallelogram  $PQRS$  is pictured below.



What is the measure of  $\angle PQT$ ?

- A  $26^\circ$
- B  $38^\circ$
- C  $42^\circ$
- D  $48^\circ$



## Grade 6 Math Test made with STAAR Test Maker 800-930-TEST

Item Number	Reporting Category	Readiness or Supporting	Content Student Expectation	Process Student Expectation	Correct Answer
1	1	Supporting	6.1 (A)		D
2	1	Readiness	6.2 (B)	6.11 (B)	G
3	4	Readiness	6.8 (B)	6.11 (C)	17
4	5	Supporting	6.9 (B)	6.11 (C)	B
5	2	Supporting	6.3 (A)		J
6	2	Readiness	6.4 (A)		A
7	2	Readiness	6.5 (A)	6.12 (A)	F
8	3	Supporting	6.6 (B)	6.11 (B)	B