

STAAR Practice

1.)

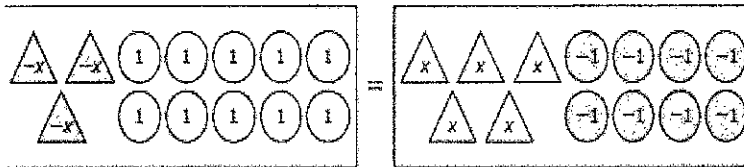
Which list shows the numbers below in order from least to greatest?

$$5.78, -5.9, 58\%, -\frac{23}{4}$$

- A $-5.9, -\frac{23}{4}, 5.78, 58\%$
- B $-\frac{23}{4}, -5.9, 58\%, 5.78$
- C $-5.9, -\frac{23}{4}, 58\%, 5.78$
- D $58\%, -\frac{23}{4}, 5.78, -5.9$

2.)

The model represents an equation.



What value of x makes the equation true?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

+	0	0	0	0		0	0
-	1	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	7
	8	8	8	8		8	8
	9	9	9	9		9	9

3.)

Three groups of students used different methods to estimate the diagonal length of a patio in feet. Their results were:

- $4\sqrt{13}$ ft
- $14\frac{2}{5}$ ft
- 14.33 ft

Which list shows these diagonal lengths in order from greatest to least?

- F $14.33, 14\frac{2}{5}, 4\sqrt{13}$
- G $14.33, 4\sqrt{13}, 14\frac{2}{5}$
- H $14\frac{2}{5}, 14.33, 4\sqrt{13}$
- J $4\sqrt{13}, 14\frac{2}{5}, 14.33$

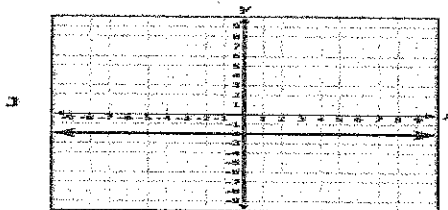
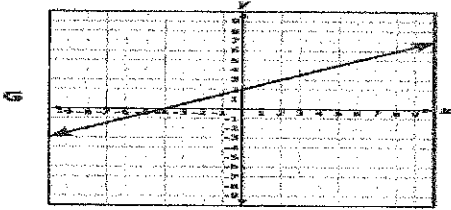
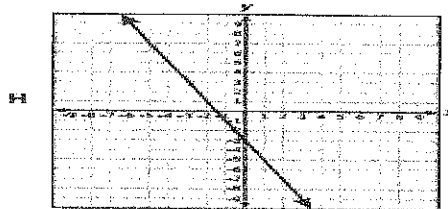
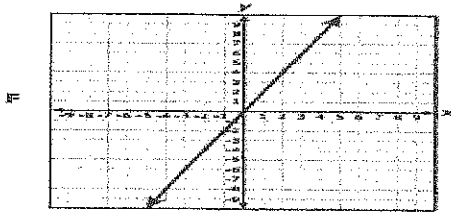
4.)

Which situation represents a proportional relationship?

- F The cost of purchasing a basket of oranges for \$1.30 per pound plus \$5.00 for the basket
- G The cost of purchasing peaches for \$7.00 per box of peaches with a delivery charge of \$3.00
- H The cost of purchasing grapefruit for \$1.80 per pound with a coupon for \$1.00 off the total cost
- J The cost of purchasing apples for \$1.75 per pound plus a shipping fee of \$0.16 per pound

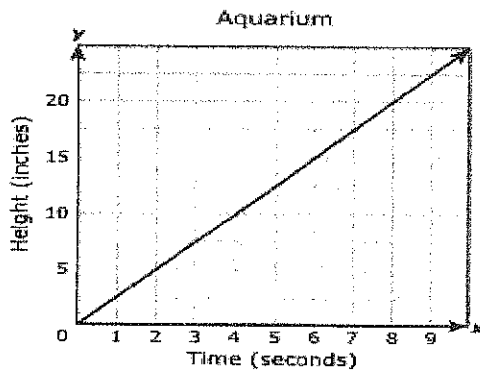
5.)

Which graph shows a proportional relationship between x and y ?



6.)

An aquarium is being filled with water. The graph shows the height of the water over time as the aquarium is being filled.



Which statement best describes the rate of change for this situation?

- A The height of the water increases 20 inches per second.
- B The height of the water increases 1 inch per second.
- C The height of the water increases 5 inches per second.
- D The height of the water increases 2.5 inches per second.