Chapter 2.1 2.2 2.4 Review

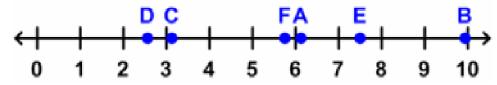
Matching

Match each numerical solution to the appropriate expression. A solution may be used more than once or not at all..

- A) -6.6
- B) 1.4
- C) 2.6

- D) 2.53
- E) 53.3
- F) -8.4
- 1. A rational number equivalent to $2\frac{3}{5}$
- 2. $3.5 \times (-2.4)$
- 3. $-6.1 (1.5 \div 3)$
- 4. $(9.6+3.4)\times(8.2\div2)$
- 5. $\sqrt{1.96}$

Match each square root with a letter from the number line below



- A) A
- B) B
- C) C
- D) D
 - E) E F) F

- 6. $\sqrt{10}$
- 7. $\sqrt{56}$
- 8. $\sqrt{39}$
- 9. $\sqrt{7}$
- 10. $\sqrt{32}$
- 11. $\sqrt{98}$

Multiple Choice

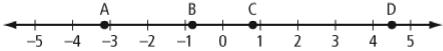
12. Consider the following list of rational numbers. Which choice shows them in ascending order?

 $1\frac{2}{6}$, $-2\frac{1}{3}$, $1\frac{12}{15}$, $1\frac{23}{25}$

- A) $-2\frac{1}{3}$, $1\frac{2}{6}$, $1\frac{12}{15}$, $1\frac{23}{25}$ C) $1\frac{2}{6}$, $-2\frac{1}{3}$, $1\frac{12}{15}$, $1\frac{23}{25}$
- B) $1\frac{23}{25}$, $1\frac{12}{15}$, $1\frac{2}{6}$, $-2\frac{1}{3}$ D) $1\frac{2}{6}$, $1\frac{12}{15}$, $1\frac{23}{25}$, $-2\frac{1}{3}$
- 13. Order the rational numbers in descending order.

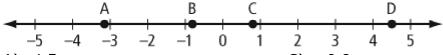
 $1\frac{3}{8}$, $-3\frac{1}{3}$, $1\frac{18}{20}$, $-1\frac{1}{5}$

- A) $-3\frac{1}{3}$, $-1\frac{1}{5}$, $1\frac{18}{20}$, $1\frac{3}{8}$ C) $1\frac{3}{8}$, $-3\frac{1}{3}$, $-1\frac{1}{5}$, $1\frac{18}{20}$
- B) $1\frac{18}{20}$, $1\frac{3}{8}$, $-1\frac{1}{5}$, $-3\frac{1}{3}$ D) $1\frac{3}{8}$, $1\frac{18}{20}$, $-1\frac{1}{5}$, $-3\frac{1}{3}$
- 14. The rational number represented by point D on the number line is



B) -0.8

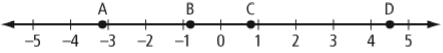
- 15. What is the rational number represented by point A on the number line?



A) 4.5

B) 0.8

- 16. What rational number is represented by point C on the number line?



B) 1.0

 17.	Det	Determine the mixed number that falls between 1.2 and 1.3.			
	A)	$1\frac{4}{5}$	C)	$1\frac{1}{4}$	
	B)	$1\frac{3}{4}$	D)	$1\frac{1}{5}$	
 18.	18. Which decimal number is equivalent to $\frac{3}{8}$?				
	A)	0.125 0.250	C)	0.375 0.500	
 19.	A)	luate (-3.6)(4.2 - 3.5) -1.03 -2.52	C) D)	-4.32 -6.52	
 20.	A)	at is the value of $-2.8 \times 2.0 - [(-1.02)]$	C)	0.18 3.58	
 21.	A)	at is the side length of a square wi 9 m 14 m	C)	n area of 196 m²? 49 m 98 m	
 22.		ermine the side length of a square 6.4 cm 1.6 cm	C)	h an area of 2.56 cm². 1.28 cm 0.64 cm	
 23.	A)	at is the area of a square with a si 32 units 32 square units	C)	ength of 8 units? 64 units 64 square units	
 24.		luate $\sqrt{2.25}$ 1.5 15	•	0.15 0.015	
 25.	the A)	professional baseball, the first base length of one side of the base? 722cm 361cm	C)	a square with an area of 1444 cm². What is 38 cm 12 cm	
 26.	is n A)	eeded to enclose the corral. 15.24 m	C)	26 m ² . Determine the length of fencing that 60.96 m 116.13 m	

Short Answer

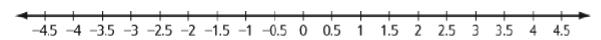
- 27. Evaluate.
 - a) $\sqrt{1.69}$
- **b)** $\sqrt{3.61}$
- c) $\sqrt{0.09}$ d) $\sqrt{0.36}$

28. Indicate where each number falls on the number line.



b)
$$-\frac{1}{3}$$

b)
$$-\frac{1}{3}$$
 c) $2\frac{4}{5}$ **d)** -3.5



29. Replace each \square with >, <, or = to make each statement true.

a)
$$\frac{2}{3}$$
 \Box 0.6

a)
$$\frac{2}{3} \Box 0.6$$
 b) $\frac{1}{4} \Box 0.25$

c) 1.52
$$\Box$$
 1 $\frac{1}{2}$

d)
$$-\frac{3}{4} \square 0.75$$
 e) $-0.9 \square -\frac{9}{11}$

e)
$$-0.9 \square -\frac{9}{11}$$

- 30. Jordan went to a pet shop and bought 8 tetra fish for \$2.00 each, 3 goldfish for \$2.75 each, and 2 angel fish for \$3.75 each. What is the total cost of the fish, before taxes?
- 31. There were 625 passengers on a 4.5 day cruise. Each passenger on the ship drank an average of 1.75 cups of juice per day. If juice costs \$0.62 per cup, how much was the cost of the juice for the entire cruise? Round your answer to the nearest cent.