

Exercise – Rational, Irrational, and Decimal

1

Which of the following shows the numbers arranged in increasing order?

- A) $-\sqrt{3}$, -5 , $\frac{2}{3}$, 4 , $\sqrt{10}$
- B) $-\sqrt{3}$, -5 , $\frac{2}{3}$, $\sqrt{10}$, 4
- C) -5 , $-\sqrt{3}$, $\frac{2}{3}$, $\sqrt{10}$, 4
- D) $\frac{2}{3}$, $-\sqrt{3}$, $\sqrt{10}$, 4 , -5

2

$$11 - 2(2 - 0.8^2) + 24 \div (-4) =$$

- A) 1.68
- B) 2.28
- C) 2.78
- D) 3.18

3

To the nearest cents, what is the value of $\$500(1 + 0.045)^8 - \$500(1 + 0.04)^8$?

- A) \$25.45
- B) \$26.00
- C) \$26.77
- D) \$28.25

4

Which of the following is an irrational number?

- A) -1.2
- B) $\frac{4}{3}$
- C) $-\sqrt{16}$
- D) $-\sqrt{10}$

5

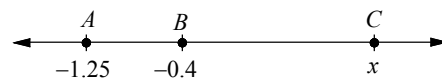
Which of the following is a rational number?

- A) $\sqrt{1.6}$
- B) $\sqrt{\frac{49}{64}}$
- C) $\sqrt{0.9}$
- D) $-\sqrt{250}$

6

In three plays, a football team loses 5 yards and then gains 32 yards by completing a pass. Then a penalty was called and the team lost 10 yards. How many yards did the team actually gain?

7



On the number line above, if $BC = 2AB$ what is the value of x ?