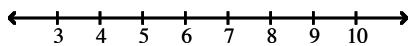


Academic Challenge Math Assessment

Name _____

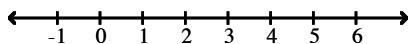
Graph the inequality on a number line.

1) $x \geq 7$



1) _____

2) $x < 3$



2) _____

Find the reciprocal, if it exists.

3) -8

3) _____

Identify the inequality as true or false.

4) $-10 > 2$

4) _____

5) $-51 < 0$

5) _____

Add.

6) $\frac{2}{3} + \left(-\frac{1}{6}\right)$

6) _____

7) $-2.8 + (-19.3)$

7) _____

8) $13 + (-15)$

8) _____

Find the absolute value.

9) $|-21|$

9) _____

Evaluate.

10) $(\sqrt{15})^0$

10) _____

11) $\left(-\frac{1}{2}\right)^6$

11) _____

Simplify.

12) $28 + 16 \cdot 16 - (-20)$

12) _____

13) $[240 \div (-5)] \div \left(-\frac{3}{5}\right)$

13) _____

14) $[2 \cdot (6 - 4)]^2$

14) _____

$$15) \frac{9(18 - 3^2)}{4 \cdot 5 \cdot 16}$$

$$15) \underline{\hspace{2cm}}$$

$$16) \left(\frac{1}{2} + \frac{3}{8} \right) \cdot \frac{2}{10}$$

$$16) \underline{\hspace{2cm}}$$

Write exponential notation.

$$17) \left(-\frac{1}{7} \right) \cdot \left(-\frac{1}{7} \right) \cdot \left(-\frac{1}{7} \right) \cdot \left(-\frac{1}{7} \right)$$

$$17) \underline{\hspace{2cm}}$$

Divide.

$$18) \frac{3.2}{0.4}$$

$$18) \underline{\hspace{2cm}}$$

$$19) -\frac{24}{3} \div \left(-\frac{4}{18} \right)$$

$$19) \underline{\hspace{2cm}}$$

Subtract.

$$20) -7 - 11$$

$$20) \underline{\hspace{2cm}}$$

$$21) -14.4 - (-7.0)$$

$$21) \underline{\hspace{2cm}}$$

Multiply.

$$22) -\frac{4}{5} \cdot \frac{3}{4}$$

$$22) \underline{\hspace{2cm}}$$

$$23) -24 \cdot 0$$

$$23) \underline{\hspace{2cm}}$$

$$24) (-3)(-3)(-3)$$

$$24) \underline{\hspace{2cm}}$$

$$25) 28 \cdot (-24)$$

$$25) \underline{\hspace{2cm}}$$

Divide, if possible.

$$26) -60 \div (-3)$$

$$26) \underline{\hspace{2cm}}$$

$$27) \frac{-336}{42}$$

$$27) \underline{\hspace{2cm}}$$

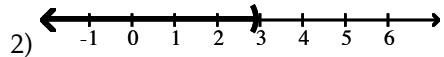
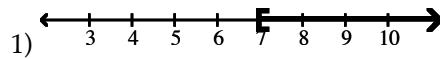
Write a true sentence using either < or >.

$$28) -9\frac{7}{9} \quad -6\frac{2}{7}$$

$$28) \underline{\hspace{2cm}}$$

Answer Key

Testname: AC MATH ASSESSMENT



3) $-\frac{1}{8}$

4) False

5) True

6) $\frac{1}{2}$

7) -22.1

8) -2

9) 21

10) 1

11) $\frac{1}{64}$

12) 304

13) 80

14) 16

15) $\frac{81}{320}$

16) $\frac{7}{40}$

17) $\left(-\frac{1}{7}\right)^4$

18) 8

19) 36

20) -18

21) -7.4

22) $-\frac{3}{5}$

23) 0

24) -27

25) -672

26) 20

27) -8

28) $-9\frac{7}{9} < -6\frac{2}{7}$