

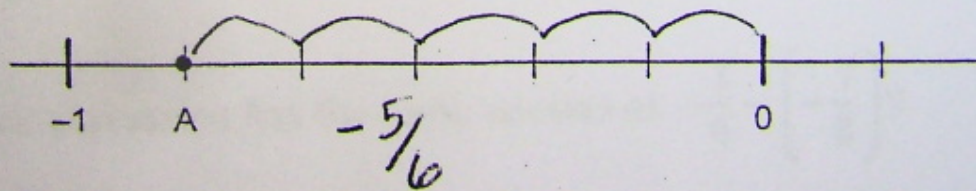
1. Which numbers are rational numbers?

$$-5.4, \frac{7}{6}, 11, -\frac{1}{4}$$

2. Identify the number that is NOT equal to the other three numbers.

$$\frac{-5}{8}, \frac{5}{-8}, \left(\frac{-5}{-8}\right), -\frac{5}{8}$$

3. Which rational number is represented by the letter A on the number line?



1. All Rational Numbers.

2.

4. -0.4
 $-0.444\dots$
 -0.44

Least $-0.444\dots$
 -0.44
 -0.4
Greatest. "Closest to zero"

5. -2.4

-2.95
 -3.35
 -3.9
 -3.95
 -4.05

$$6. \frac{4}{6}$$

$$\frac{7}{5}$$

$$0.\overline{6}$$

$$\frac{5}{6} = 0.8\overline{3} \quad \checkmark$$

$$\frac{1}{5} = 0.2 \quad \times$$

$$\frac{7}{8} = 0.875 \quad \checkmark$$

$$\frac{4}{5} = 0.8 \quad \checkmark$$

$$7. (-2.5) + (-6.1)$$

$$-8.6$$

$$8. \quad 5.8 + (-7.7) = -$$

$$-1.1 + (-1.8) = -$$

$$-3.3 + 3.6 = +$$

$$-3.6 + 2.8 = -$$

$$9. \quad \frac{14}{7} + \left(-\frac{15}{14}\right)$$

$$\frac{28}{14} + \left(-\frac{15}{14}\right)$$

$$\frac{13}{14}$$

$$9. \quad \frac{14}{7} + \left(-\frac{15}{14}\right)$$

$$\frac{28}{14} + \left(-\frac{15}{14}\right)$$

$$\frac{13}{14}$$

$$16. \quad -4.4 - 10.5$$

$$10. \quad -40.25 - 15.75 + 20.75$$

$$-35.25$$

$$11. \quad 9.43 + 6.05$$

$$-9.43 + 6.05$$

$$9.43 + -6.05$$

$$-9.43 + -6.05 = -15.48 \quad (\text{least})$$

$$\begin{array}{r} 12. \quad -18.1 \\ \quad -11.2 \\ \hline \quad -29.3 \end{array}$$

$$13. \quad \frac{23}{7}$$

$$14. \quad \begin{array}{l} \text{|||} \\ \text{|||} \end{array} \quad -\frac{3}{4} + \frac{7}{8} \quad \text{because you "add the opp}$$

$$15. \quad -\frac{3}{4} - \frac{7}{8}$$

$$-\frac{6}{8} - \frac{7}{8}$$

$$-\frac{13}{8}$$

8 8

$-\frac{13}{8}$

16. $-4.4 - 10.5$
 -14.9

17. $\frac{4}{\cancel{9}} \times \frac{(-6)^{-2}}{1}$
 $\frac{-8}{3}$

18. i) - less than zero
 ii) +
 iii) +
 iv) - less than zero.

19. $\left(-\frac{3}{2}\right)\left(-\frac{5}{4}\right)$
 $+15/8$

20. $(-2.8) \div 4$
 -0.7

$$21. -4\frac{3}{4} + -1\frac{3}{5}$$

$$- \frac{19}{4} + - \frac{8}{5}$$

$$- \frac{95}{20} + - \frac{32}{20}$$

$$- \frac{127}{20}$$

$$-6\frac{7}{20}$$

$$22. \quad -\frac{10^3}{3 \cdot 3} - \frac{13}{9}$$

$$-\frac{30}{9} - \frac{13}{9}$$

$$-\frac{43}{9}$$

$$-4 \frac{7}{9}$$

26

23

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

$$\left(\frac{7}{2}\right) \left(-\frac{11}{3}\right)$$

$$\frac{-77}{6}$$

$$-12 \frac{5}{6}$$

$$\begin{array}{r} -33 \frac{11}{6} \\ 12 \\ -12 \frac{5}{6} \end{array}$$

24. $\left(-\frac{4}{3}\right) \div \left(-\frac{5}{3}\right)$

$$-\frac{4}{3} \times -\frac{3}{5}$$
$$\frac{4}{5}$$

$$\begin{aligned} 25. \quad & 6.4 - 3.8 \div 2.4 \times 4.1 \\ & 6.4 - 1.58 \times 4.1 \\ & 6.4 - 6.5 \\ & -0.1 \end{aligned}$$

$$26. \quad \frac{2}{3} - \left(\frac{-1}{12} \right) \left(\frac{-4}{21} \right)$$

$$+\frac{2}{3} - \left(\frac{+1}{9} \right)$$

$$+\frac{6}{9} - \left(\frac{1}{9} \right)$$

$$+\frac{5}{9}$$

$$27. \left[\frac{8}{9} \times \left(\frac{-5}{12} \right) \right] \div \left[-\frac{4}{9} \right]$$

$$\frac{-10}{27} \div -\frac{4}{9}$$
$$\frac{-5}{27} \times \frac{9}{4}^{-1}$$

$$\text{Ans } \frac{+5}{6}$$

$$\begin{aligned} 28. \quad & -2\frac{3}{4} - -4\frac{1}{3} - 2\frac{5}{6} \\ & -\frac{11 \cdot 3}{4 \cdot 3} - -\frac{13 \cdot 4}{3 \cdot 4} - \frac{17 \cdot 2}{6 \cdot 2} \\ & -\frac{33}{12} - -\frac{52}{12} - \frac{34}{12} \\ & \frac{19}{12} - \frac{34}{12} \\ & -\frac{15}{12} \\ & -1\frac{3}{12} \\ & -1\frac{1}{4} \end{aligned}$$