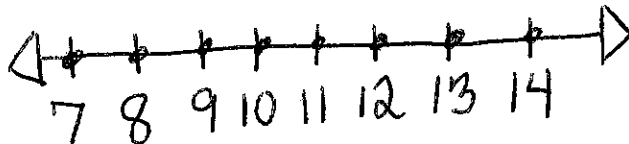
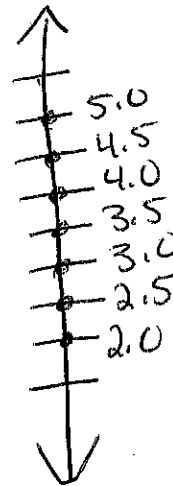


6th grade Benchmark 1 Study Guide

1. Draw a horizontal number line to represent whole numbers between 7 and 14.



2. Represent the decimals 2.0, 2.5, 3.0, 3.5, ..., 5.0 on a vertical number line.



3. Compare the decimals 2.1 and 2.61

$$2.1 < 2.61$$

4. Which is the greatest number, $\frac{1}{4}$, 0.1, $\frac{2}{5}$ or 0.5?

5. Tell whether the number 21 is prime or composite.

Composite
 $1 \cdot 21$
 $3 \cdot 7$

6. Write 40 as a product of its prime factors.

$$\begin{array}{r} 40 \\ \swarrow \downarrow \\ 8 \cdot 5 \\ \swarrow \downarrow \\ 2 \cdot 2 \cdot 2 \cdot 5 \end{array}$$

7. Identify all of the common factors of 16 and 36.

$$\begin{array}{r} 16 \\ \downarrow \\ 1 \\ \downarrow \\ 2 \\ \downarrow \\ 4 \\ \downarrow \\ 8 \\ \downarrow \\ 16 \end{array} \quad \begin{array}{r} 36 \\ \downarrow \\ 1 \\ \downarrow \\ 2 \\ \downarrow \\ 3 \\ \downarrow \\ 4 \\ \downarrow \\ 6 \\ \downarrow \\ 9 \\ \downarrow \\ 12 \\ \downarrow \\ 18 \\ \downarrow \\ 36 \end{array} \quad 1, 2, 4$$

8. Find the first two common multiples of 4 and 9.

4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72

9, 18, 27, 36, 45, 54, 63, 72, 81

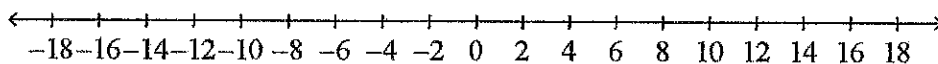
9. Find the square root of 64.

$$\sqrt{64} = \frac{8}{1} = 8$$

10. Write a positive or negative number to represent the situation.
A loss of 45 points

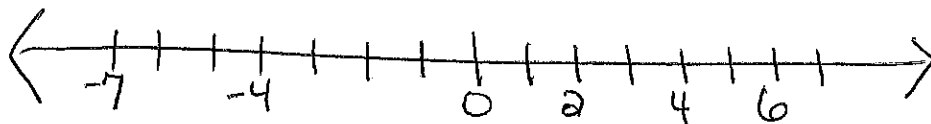
$$-45$$

11. Compare 17 > -16. Write < or >. You can use the number line to help you.



$$17 > -16$$

12. Use a number line to order the integers 2, -4, 4, -7, 6, and 0 from least to greatest. -7, -4, 0, 2, 4, 6



14. Use a number line to find the absolute value.

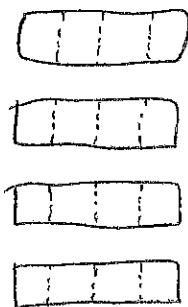
$$|6|$$

$$6$$

15. Multiply 0.8 by 6.

$$\begin{array}{r} 6 \\ \times 0.8 \\ \hline 4.8 \end{array}$$

16. Liam has 4 loaves of banana bread. He cuts the loaves of bread and gives $\frac{3}{4}$ of a loaf to each member of his family. How much of a loaf is leftover?



1 loaf

Practice

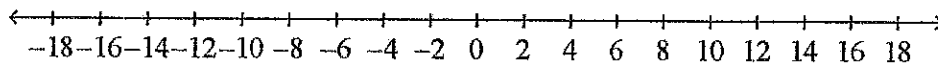
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 $|6|$

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