

Module 3 Confirmation Test Review

Evaluate the following expressions.

1. $4^3 - 6(16 + 5^3) - 6$

2. $\frac{2}{3}\left(\frac{5}{9} + \frac{1}{15}\right) - \frac{3}{4}$

Simplify the following expressions.

3. $4(-3x + 5) - 2(6 + 7x)$

4. $5 - 4(6x + 3)$

Evaluate the following expressions when $a=5$ and $b=-2$

5. $a^2 + b^3$

6. $3a + 5b^2$

Solve for the specified variable.

7. $3x - 5 = -20$

8. $9 + 4x = 10$

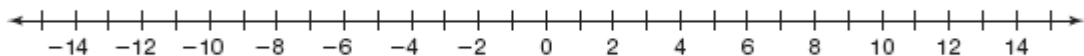
Perform the following operations.

9. $\frac{4}{5} \cdot \frac{15}{28}$

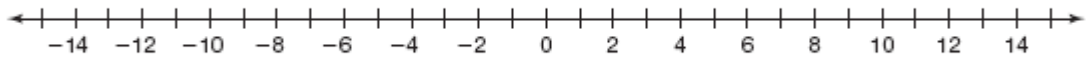
10. $\frac{9}{16} \div \frac{5}{8}$

11. Draw a number line model (including arrows above the number line) to represent each addition or subtraction problem:

a) $-5 + 9$



b) $-4 - 3$



12. Simplify

a) $-20 - (-3)$

b) $13 + (-11)$

c) $-12 + 8$

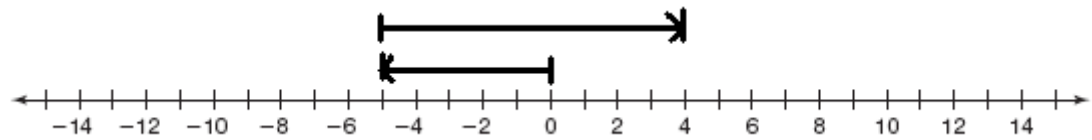
d) $(-2)(4)(-1)$

e) $(8)(-3)(0)(5)$

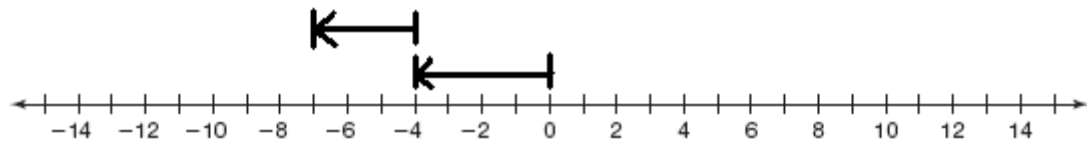
f) $(-1)(-2)(3)(-4)$

1. -788
2. $\frac{-181}{540}$
3. $-26x+8$
4. $-24x-7$
5. 17
6. 35
7. $x = -5$

8. $x = \frac{1}{4}$
9. $\frac{3}{7}$
10. $\frac{9}{10}$
11. a)



b)



12. a) -17 b) 2 c) -4 d) 8 e) 0 f) -24