

**Practice 1-6****Mixed Exercises**Use  $<$ ,  $=$ , or  $>$  to compare.

1.  $-10.98$   $\square$   $-10.99$

2.  $-\frac{1}{3}$   $\square$   $-0.3$

3.  $-\frac{1}{2}$   $\square$   $-\frac{5}{10}$

4.  $-\frac{3}{8}$   $\square$   $-\frac{7}{16}$

Evaluate each expression.

5.  $xy$  for  $x = \frac{3}{5}$  and  $y = -\frac{3}{4}$

6.  $\frac{m+n}{m}$  for  $m = -\frac{3}{4}$  and  $n = \frac{2}{3}$

7.  $\frac{2a}{b}$  for  $a = -\frac{3}{4}$  and  $b = \frac{1}{2}$

8.  $6xy$  for  $x = -\frac{7}{3}$  and  $y = -\frac{1}{6}$

9.  $\frac{x}{y}$  for  $x = -\frac{7}{8}$  and  $y = 7$

10.  $xyz$  for  $x = \frac{5}{6}$ ,  $y = -\frac{3}{4}$ , and  $z = -\frac{1}{2}$

11.  $ab$  for  $a = \frac{2}{3}$  and  $b = -\frac{5}{6}$

12.  $-12mn$  for  $m = -\frac{7}{9}$  and  $n = \frac{1}{8}$

Evaluate each expression for  $a = 33$  and  $b = -15$ .

13.  $\frac{3}{4}(b - 13)$

14.  $-\frac{1}{4}(a - b)$

15.  $\frac{2}{3}(a + b)$

16.  $\frac{9}{4}(13 + b)$

17.  $\frac{9}{5}(20 - b)$

18.  $-\frac{5}{9}(-25 + a)$

Write in order from least to greatest.

19.  $-\frac{8}{9}$ ,  $-\frac{7}{8}$ ,  $-\frac{22}{25}$

20.  $-3\frac{4}{9}$ ,  $-3.45$ ,  $-3\frac{12}{25}$

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

22.  $-1.7$ ,  $-1\frac{3}{4}$ ,  $-1\frac{7}{9}$

Evaluate each expression for  $x = -\frac{1}{2}$  and  $y = -\frac{2}{3}$ .

23.  $x - y - \frac{1}{2}$

24.  $\frac{2}{3}x + \frac{3}{4}y$

25.  $4xy$

26.  $\frac{1}{4}xy$

27.  $\frac{x}{y}$

28.  $-3x - 6y$

Evaluate each expression.

29.  $\frac{4}{3}cd$  for  $c = -\frac{1}{2}$  and  $d = -\frac{2}{3}$

30.  $-\frac{3}{7}(x - 52)$  for  $x = 10$

31.  $4x + 7y$  for  $x = \frac{3}{4}$  and  $y = -\frac{1}{3}$

32.  $\frac{3a}{b}$  for  $a = -\frac{5}{6}$  and  $b = -\frac{3}{4}$

33.  $st$  for  $s = -\frac{1}{4}$  and  $t = -\frac{4}{5}$

34.  $mn$  for  $m = -\frac{2}{5}$  and  $n = -\frac{2}{3}$

Change the following from Fahrenheit to Celsius. Use  $C = \frac{5}{9}(F - 32)$ .

35.  $-22^\circ\text{F}$

36.  $95^\circ\text{F}$

37.  $-31^\circ\text{F}$

38.  $50^\circ\text{F}$