

1)  $\frac{5}{8} \div \frac{10}{3}$

1) \_\_\_\_\_

Add or subtract as indicated. Write the answer in simplest form.

2)  $\frac{2}{7} - \frac{1}{21}$

2) \_\_\_\_\_

Multiply. Write the answer in simplest form.

3)  $\frac{5}{12} \cdot \frac{84}{15}$

3) \_\_\_\_\_

Add or subtract as indicated. Write the answer in simplest form.

4)  $\frac{7}{10} - 3$

4) \_\_\_\_\_

Simplify.

5)  $\frac{1}{2} + \frac{1}{7} \cdot \frac{1}{9}$

5) \_\_\_\_\_

6)  $\frac{1}{6} \div \frac{1}{2} \cdot \frac{1}{8}$

6) \_\_\_\_\_

Solve. Write the fraction in simplest form.

7) A storehouse stores 1460 different inventory items.  $\frac{3}{20}$  of these items are perishable. How many of the inventory items are perishable?

7) \_\_\_\_\_

Divide and simplify.

8)  $-\frac{4}{5} \div \frac{5}{13}$

8) \_\_\_\_\_

Simplify.

9)  $\left(\frac{-7}{6} + \frac{1}{3}\right) \div \frac{3}{13}$

9) \_\_\_\_\_

Solve. Write the fraction in simplest form.

10) A restaurant has a capacity of 240 patrons. If the restaurant is  $\frac{1}{4}$  full, how many patrons are at the restaurant?

10) \_\_\_\_\_

Insert < or > to form a true sentence.

11)  $-\frac{4}{11}$  \_\_\_\_\_  $-\frac{1}{3}$

11) \_\_\_\_\_

12)  $\frac{16}{17}$  \_\_\_\_\_  $\frac{3}{20}$

12) \_\_\_\_\_

Write the prime factorization of the number.

13) 112

13) \_\_\_\_\_

14) 134

14) \_\_\_\_\_

Perform the indicated operation.

15)  $-8.9 - 3.9$

15) \_\_\_\_\_

16)  $15.77 - 4.481$

16) \_\_\_\_\_

Insert  $<$ ,  $>$ , or  $=$  between the pair of numbers to form a true statement.

17)  $0.776$  \_\_\_\_\_  $0.77600$

17) \_\_\_\_\_

18)  $-0.86$  \_\_\_\_\_  $-0.82$

18) \_\_\_\_\_

19)  $0.5$  \_\_\_\_\_  $0.0658$

19) \_\_\_\_\_

Multiply.

20) 
$$\begin{array}{r} 0.316 \\ \times 4.8 \\ \hline \end{array}$$

20) \_\_\_\_\_

Simplify the expression.

21)  $\frac{1.26 - 28.86}{-0.6}$

21) \_\_\_\_\_

22)  $(6.9 + 7.6)(9.9 - 2.4)$

22) \_\_\_\_\_

Divide.

23)  $-4.08 \div -12$

23) \_\_\_\_\_

24)  $-0.2 \div (-0.8)$

24) \_\_\_\_\_

Write the phrase as a variable expression. Use  $x$  to represent "a number."

25) 46 subtracted from a number

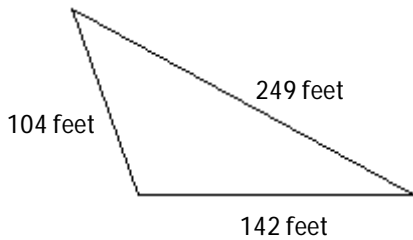
25) \_\_\_\_\_

26) The product of 7 and a number

26) \_\_\_\_\_

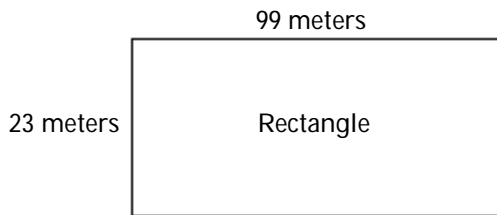
Find the perimeter.

27)



27) \_\_\_\_\_

28)



28) \_\_\_\_\_

Simplify.

29)  $12 + 16 \div 4 \cdot 2 - 8$

29) \_\_\_\_\_

30)  $48 \div 0 + 3$

30) \_\_\_\_\_

31)  $(80 + 4^2) \div 2 \cdot 2^2$

31) \_\_\_\_\_

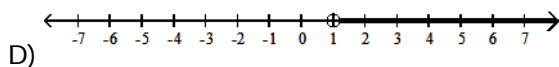
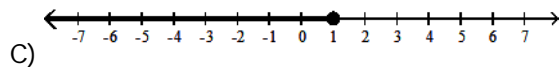
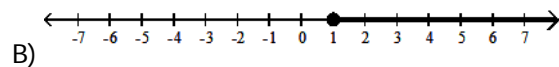
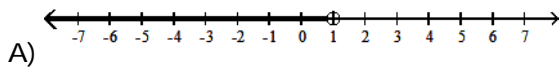
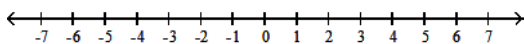
32)  $16 - (10 \div 2) + 5 \cdot 2^2$

32) \_\_\_\_\_

Graph on a number line.

33)  $x > 1$

33) \_\_\_\_\_



Round the decimal to the given place value.

34) 1.135, nearest hundredth

34) \_\_\_\_\_

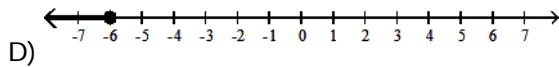
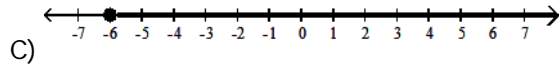
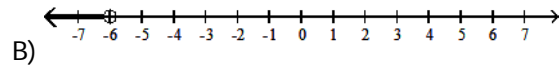
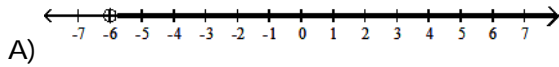
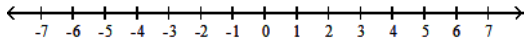
35) 1.96264, nearest thousandth

35) \_\_\_\_\_

Graph on a number line.

36)  $x \leq -6$

36) \_\_\_\_\_



Represent the quantity by an integer.

37) a climb of 128 feet down into a subterranean cave

37) \_\_\_\_\_

38) a deduction of \$166.73 in your checkbook

38) \_\_\_\_\_

39)  $39^\circ$  below zero

39) \_\_\_\_\_

40) 178 feet below sea level

40) \_\_\_\_\_

Add.

41)  $-74 + 22$

41) \_\_\_\_\_

42)  $-84 + (-36)$

42) \_\_\_\_\_

Simplify.

43)  $26 + 8 \cdot 6$

43) \_\_\_\_\_

44)  $6^2 \div 6 \times 9 + 8$

44) \_\_\_\_\_

45)  $7^2 - 5 \cdot 5$

45) \_\_\_\_\_

46)  $4 - 4(2 - 6)$

46) \_\_\_\_\_

47)  $-4 + 3 \cdot 9$

47) \_\_\_\_\_

Translate to an equation and solve.

48) 75% of 168 is what number?

48) \_\_\_\_\_

49) 46 is what percent of 50?

49) \_\_\_\_\_

50) 15 is 4% of what number?

50) \_\_\_\_\_

Convert the measurement as indicated.

51) 45 ft to yards

51) \_\_\_\_\_

Convert as indicated.

52) 5400 cm to meters

52) \_\_\_\_\_

Solve. Round your answer to the nearest whole.

53) Patricia got 42 out of the 84 questions right on last Monday's test. What percent of the test did she do correctly?

53) \_\_\_\_\_

Solve. If necessary, round percents to the nearest tenth, dollar amounts to the nearest cent, and all other numbers to the nearest whole.

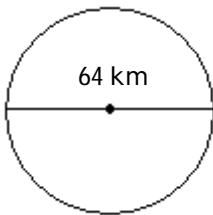
54) A company increased the number of its employees from 220 to 285. Find the percent increase.

54) \_\_\_\_\_

Find the exact or approximate circumference of the circle, as indicated.

55) Find the approximate circumference. Use  $\pi \approx 3.14$ .

55) \_\_\_\_\_



Solve the equation.

56)  $3 - r = 20$

56) \_\_\_\_\_

57)  $209 - 419 = 35(x - 3)$

57) \_\_\_\_\_

58)  $5n - 2 = 18$

58) \_\_\_\_\_

Solve.

59) A drapery panel measures 5 feet by 8 feet. Find how many square feet of material are needed for six panels.

59) \_\_\_\_\_

Write the percent as a fraction or a mixed number in simplest form.

60) 160%

60) \_\_\_\_\_

Write the decimal as a percent.

61) 0.67

61) \_\_\_\_\_

## Answer Key

Testname: 18FER1

- 1)  $\frac{3}{16}$
- 2)  $\frac{5}{21}$
- 3)  $\frac{7}{3}$
- 4)  $-\frac{23}{10}$
- 5)  $\frac{65}{126}$
- 6)  $\frac{1}{24}$
- 7) 219 items
- 8)  $-\frac{52}{25}$
- 9)  $\frac{-65}{18}$
- 10) 60 patrons
- 11) <
- 12) >
- 13)  $2^4 \cdot 7$
- 14)  $2 \cdot 67$
- 15) -12.8
- 16) 11.289
- 17) =
- 18) <
- 19) >
- 20) 1.5168
- 21) 46
- 22) 108.75
- 23) 0.34
- 24) 0.25
- 25)  $x - 46$
- 26)  $7x$
- 27) 495 ft
- 28) 244 m
- 29) 12
- 30) undefined
- 31) 192
- 32) 31
- 33) D
- 34) 1.14
- 35) 1.963
- 36) D
- 37) -128
- 38) -166.73
- 39) -39

## Answer Key

Testname: 18FER1

- 40) -178
- 41) -52
- 42) -120
- 43) 74
- 44) 62
- 45) 24
- 46) 20
- 47) 23
- 48) 126
- 49) 92%
- 50) 375
- 51) 15 yd
- 52) 54 m
- 53) 50%
- 54) 29.5%
- 55) 200.96 km
- 56) -17
- 57) -3
- 58) 4
- 59) 240 sq ft
- 60)  $1\frac{3}{5}$
- 61) 67%