



Find the quotient.

$$14 \overline{) -49}$$

Write the sentence as an equation. Use  $x$  to represent "a number."

31) Ten subtracted from a number yields 15.

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

Solve.

32) Nine times a number, added to  $-2$ , is 43. Find the number.

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

33) Eight times the difference of 5 and a number amounts to 144. Find the number.

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

34) The difference of a number and 9 is 47 less the number. Find the number.

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

35) Mary and her brother John collect foreign coins. Mary has twice the number of coins that John has. Together they have 105 foreign coins. Find how many coins Mary has.

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

36) A high school graduating class is made up of 339 students. There are 77 more girls than boys. How many boys are in the class?

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

37)  $m - \frac{2}{3} = \frac{1}{4}$

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

38)  $\frac{1}{3} - \frac{3}{7} = \frac{x}{21}$

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

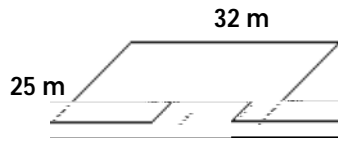
Solve the equation.

39)  $8x + 17 =$

Find the perimeter of the figure.

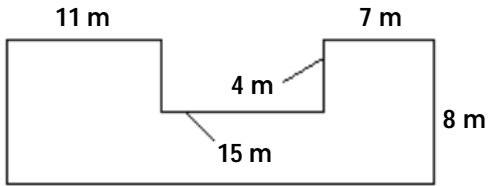
43) Parallelogram

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



44)

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



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

45) Find the exact circumference.

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





54) Approximate to the nearest hundredth the volume of a sphere with a radius of 4.5 centimeters. Use 3.14 for  $\pi$ .

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

Convert the measurement as indicated.

55) 19 yd to feet

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

56) 29 in. = \_\_\_\_\_ ft \_\_\_\_\_ in.

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

Perform the indicated operation. Simplify the result if possible.

57) 28 ft 1 in. - 21 ft 4 in.

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

Perform the indicated operation.

58) 35 cm + 7.2 dm (in centimeters)

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

Convert as indicated.

59) 38 oz to pounds

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

60) 430 g to milligrams

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

Perform the indicated operation.

61) 4.72 g + 253 mg (in g)

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

62) 13 lb 15 oz + 30 lb 12 oz

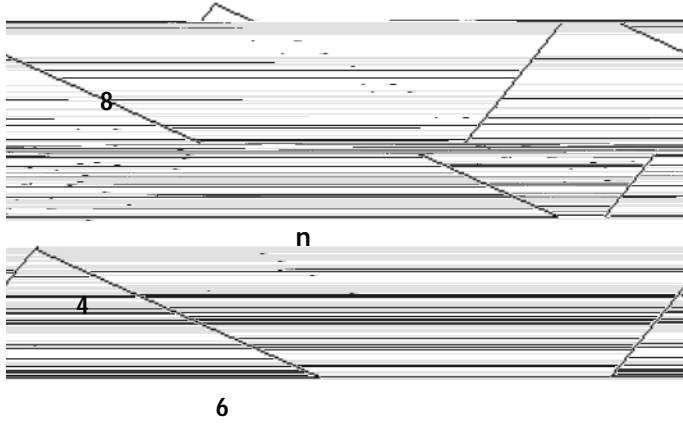
62) \_\_\_\_\_



Given that the pair of triangles is similar, find the unknown length of the side labeled with a variable.

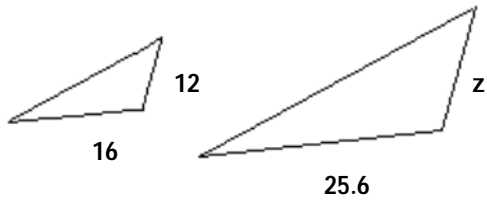
74)

74) \_\_\_\_\_



75)

75) \_\_\_\_\_





## Answer Key

### Testname: MATH 71 - FINAL REVIEW

- 1) 40
- 2) 128
- 3) 11
- 4) 57
- 5) no
- 6)  $3x - 8$
- 7) 13
- 8) -11
- 9) -36 ft
- 10) 5
- 11) -10
- 12) 16
- 13) 64
- 14) -7
- 15) -52
- 16) 15
- 17) -23
- 18) -9
- 19) -2
- 20) -24
- 21) -4b
- 22)  $-10a + 2b - 4c$
- 23)  $80x$
- 24)  $-45a - 30$
- 25)  $10x + 24$
- 26) -10
- 27) 3
- 28) 4
- 29) -6
- 30) -29
- 31)  $x - 10 = 15$
- 32) 5
- 33) -13
- 34) 28
- 35) 70 coins
- 36) 131 boys
- 37)  $\frac{11}{12}$
- 38) -2
- 39) -4.4
- 40) 3.425
- 41)  $72^\circ$
- 42)  $7v$

## Answer Key

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48) 27.5 sq ft

49) 53 sq m

50) 108 crct