

Understanding Decimal Value

Directions: Change the following fractions into their decimal equivalents. Show your work. Use a calculator to check your answers. (Divide the numerator by the denominator.)

1)
$$\frac{6}{25}$$

2)
$$\frac{3}{10}$$

3)
$$\frac{3}{6}$$

4)
$$\frac{11}{100}$$

5)
$$\frac{9}{20}$$

6) Four basketball players were competing to see who had the best vertical leap. James was able to jump 26.56 inches. Eric's jump measured 27.39 inches. Jamaal jumped 26.9 inches and Victor jumped 27.4 inches. Write the names in order of who won from first to last.

Write the following sets of numbers in order from least to greatest.

7) 6.1
6.026
6.04
6.15
6.0398) 9.03
8.8
8.08
9.3
9.199) 7.5
7.09
7.99
7.110) 10.09
10.1
10.089
10.3
10.036

Write the following sets of numbers in order from greatest to least.

11) 2.2
2.09
2.16
2.19
2.112) 12.5
12.7
12.07
12.17
12.913) 5.26
5.097
5.79
5.3
5.714) 4.598
4.89
4.6
4.59
4.09

15) Kasey was growing a plant for a science project. Over two weeks her plant grew 4.5 inches. How do express 4.5 inches as a fraction.(Express in lowest terms.)

16) Franklin was on a diet and lost 5.3 pounds. Express as a fraction how many pounds he lost.

Write the following decimals as fractions. Express in lowest terms when possible.

17) 0.25

18) 5.6

19) 0.40

20) 6.24

21) 5.3

22) 4.21

23) 0.7

24) 8.2

Multiple Choice

25) What is $\frac{3}{5}$ written as a decimal? a) 3.5 b) 0.6 c) .35 d) 0.5

26) What fraction is equal to 4.7? a) $\frac{4}{7}$ b) $\frac{7}{4}$ c) $\frac{7}{10}$ d) $4\frac{7}{10}$

27) How is $3\frac{2}{10}$ written as a decimal? a) 32.10 b) 3.2 c) 3.10 d) 3.02

28) What fraction is equal to 0.8? a) $\frac{8}{100}$ b) $\frac{4}{100}$ c) $\frac{4}{5}$ d) $\frac{8}{20}$