

## Problem Set - Decimals 2

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Solve each problem. Show all of your work.

For problems 1 through 4, round each decimal as indicated.

1. 982.5; hundred

3. 8.97; tenth

2. 0.0007; thousandth

4. 3.4212; hundredth

For problems 5 through 10, write each item as a decimal rounded to the nearest ten thousandth.

5.  $\frac{3}{9}$

8.  $\frac{5}{48}$

6.  $\frac{9}{32}$

9.  $5\frac{6}{7}$

7.  $1\frac{7}{64}$

10.  $\frac{52}{19}$

11. Write as a fraction in lowest terms

(a) 0.4

(c) 0.55

(b) 0.32

(d) 0.248

12. Multiply 0.8 by 0.25.

13. Write as a decimal the length one hundred fifty-three thousandths of an inch.

14. Round to the nearest tenth the product of 1.4 and 9.6.
15. Round to the nearest tenth the ratio of 5.4 feet to 2.3 feet.
16. Find to the nearest hundredth 33.19 divided by 16.
17. Find to the nearest tenth 121.24 divided by 1.5.
18. Gas costs 2.89 per gallon, and Pat's van gets 18 miles per gallon. To the nearest cent, how much does it cost to drive 48 miles?
19. A pump moves 48 liters per hour. To the nearest hour, how long does it take to move 1100 liters?
20. A workpiece  $\frac{5}{8}$  inch thick is to be reduced to  $\frac{19}{32}$  thick in four passes of a grinder. To the nearest thousandth of an inch, what thickness of material must be removed in each pass?
21. A tool can remove a maximum of three hundredths of an inch on each pass. How many passes are required to remove  $\frac{7}{64}$  of an inch?
22. Which is cheaper per pound, 52 pounds for \$12.89, or 100 pounds for \$24.99?