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Chapter 3 - Operations with Decimals - Practice Test

Write each decimal in word form.

1. 0.07

Write in word form.
seven hundredths

2. 8.051

Write in word form.
eight and fifty-one thousandths

3. six tenths

Write in standard form.
0.6
Write in expanded form.
(6×0.1)

4. two and twenty one thousandths

Write in standard form.
2.021
Write in expanded form.
$(2 \times 1) + (0 \times 0.1) + (2 \times 0.01) + (1 \times 0.001)$

5. **SCIENCE** The mass of a particular chemical sample is given as 4.0023 grams. Write the mass in word form.

Write in word form.
four and twenty-three-ten-thousandths

Use >, <, or = to compare each pair of decimals.

6. 2.03 ● 2.030

Place a zero to the right of the last digit of 2.03 so the two numbers have the same number of digits.
$2.03 \rightarrow 2.030$
$2.030 \rightarrow 2.030$
Compare the corresponding digits.
Since $0 = 0$, $2.03 = 2.030$.

7. 7.960 ● 7.906

7.960
7.906
Compare the corresponding digits.
Since $6 > 0$, $7.960 > 7.906$.

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8. **TEST PRACTICE** Dion recorded the daily high temperatures for Phoenix, Arizona, over five days in the table below.

Day	Temperature (°F)
Monday	109.8
Tuesday	108.9
Wednesday	111.08
Thursday	108.92
Friday	111.0

Which of the following shows the daily high temperatures in order from least to greatest?
A 108.9°F, 108.92°F, 109.8°F, 111.0°F, 111.08°F
B 108.92°F, 108.9°F, 109.8°F, 111.0°F, 111.08°F
C 108.9°F, 108.92°F, 109.8°F, 111.08°F, 111.0°F
D 108.92°F, 108.9°F, 109.8°F, 111.08°F, 111.0°F

Place a zero to the right of the last digits so the numbers all have the same number of digits.
109.8 → 109.80
108.9 → 108.90
111.08 → 111.08
108.92 → 108.92
111.0 → 111.00
The temperatures from least to the greatest are 108.9°F, 108.92°F, 109.8°F, 111.0°F, 111.08°F.
The answer is A.

9. 27.35; tens

27.35 rounded to the nearest ten is 30.

10. 3.4556; thousandths

3.4556 rounded to the nearest thousandth is 3.456.

11. 38.23 + 11.84; rounding

$38.23 + 11.84 \approx 38 + 12 = 50$

12. \$75.38 – \$22.04; front–end estimation

$$\$75.38 - \$22.04 \approx \$70 - \$20$$
$$= \$50$$

13. 6.72 + 7.09 + 6.6; clustering

$$6.72 + 7.09 + 6.6 \approx 3 \times 7$$
$$= 21$$

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14. 43.28 + 31.45

Add.

$$\begin{array}{r} 43.28 \\ +31.45 \\ \hline 74.73 \end{array}$$

15. 392.802 – 173.521

Subtract.

$$\begin{array}{r} 392.802 \\ -173.521 \\ \hline 219.281 \end{array}$$

16. 7.8 × 6

$$\begin{array}{r} {\scriptstyle 4} \\ 7.8 \\ \times\ 6 \\ \hline 46.8 \end{array}$$

17. 0.92 × 4

$$\begin{array}{r} {\scriptstyle 3} \\ 0.92 \\ \times\ \ 4 \\ \hline 3.68 \end{array}$$

18. 12 × 0.034

$$\begin{array}{r} 0.034 \\ \times\ \ 12 \\ \hline 68 \\ 34 \\ \hline 0.408 \end{array}$$

19. 4.56 × 9.7

$$\begin{array}{r} 4.56 \\ \times\ 9.7 \\ \hline 3192 \\ 4104 \\ \hline 44.232 \end{array}$$

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20. **MULTIPLE CHOICE** Armando and his 3 friends ordered a 4-foot sub for $25.99, 4 large drinks for $1.79 each, and a salad for $5.89. Which of the following represents the total cost, not including tax?
A $134.68
B $39.04
C $37.25
D $33.67

$4 \times 1.79 + 25.99 + 5.89$
Multiply.

$$\begin{array}{r} 1.79 \\ \times \quad 4 \\ \hline 7.16 \end{array}$$

Add.
$7.16 + 25.99 + 5.89 = 39.04$

21. $7.2 \div 3$

$$\begin{array}{r} 2.4 \\ 3\overline{)7.2} \\ -6 \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

22. $0.45 \div 15$

$$\begin{array}{r} 0.03 \\ 15\overline{)0.45} \\ -0 \\ \hline 04 \\ -0 \\ \hline 45 \\ -45 \\ \hline 0 \end{array}$$

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23. $36.08 \div 8.2$

$$8.2\overline{)36.08} \rightarrow 82\overline{)360.8}$$

$$\begin{array}{r} 4.4 \\ -328 \\ \hline 328 \\ -328 \\ \hline 0 \end{array}$$

24. $10.79 \div 4.15$

$$4.15\overline{)10.79} \rightarrow 415\overline{)1079.0}$$

$$\begin{array}{r} 2.6 \\ 830 \\ \hline 2490 \\ -2490 \\ \hline 0 \end{array}$$

25. **ANIMALS** The greyhound can run as fast as 39.35 miles per hour. Without calculating, would about 12, 14, or 16 be a reasonable answer for the number of miles a greyhound could run at this rate in 0.4 hour? Explain your reasoning.

about 16; Sample answer: 39.35 is almost 40. 40×0.4 is the same as 4.0×4.0 or 16.