

## Chapter 02: Decimals

### Gray Morris: Calculate with Confidence, 1st Canadian Edition

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#### COMPLETION

1. Change the following to a decimal. Express the answer to the nearest thousandth; if the answer is less than 1, place a 0 to the left of the decimal.

$$1/64 = \underline{\hspace{2cm}}$$

ANS: 0.015

PTS: 1                      REF: Page 34

2. Change the following to a decimal. Express the answer to the nearest thousandth; if the answer is less than 1, place a 0 to the left of the decimal.

$$5/18 = \underline{\hspace{2cm}}$$

ANS: 0.277

PTS: 1                      REF: Page 34

3. Change the following decimal to a fraction. Reduce to the lowest terms. If the answer is a mixed number, place a space between the whole number and the fraction.

$$7.025 = \underline{\hspace{2cm}}$$

ANS: 7 1/40

PTS: 1                      REF: Page 35

4. Change the following decimal to a fraction. Reduce to the lowest terms. If the answer has a number greater than 999, a space is to be put after the thousands place, for example 6 000 or 30 000.

$$0.0001 = \underline{\hspace{2cm}}$$

ANS: 1/10 000

PTS: 1                      REF: Page 35

5. Identify the decimal with the largest value in the following set.

$$0.6, 0.128 = \underline{\hspace{2cm}}$$

ANS: 0.6

PTS: 1                      REF: Pages 26–27

6. Identify the decimal with the largest value in the following set.

$$0.7, 0.67, 0.86: \underline{\hspace{2cm}}$$

ANS: 0.86

PTS: 1 REF: Pages 26–27

7. Round off the following decimal to the nearest tenth.  
 $3.539 = \underline{\hspace{2cm}}$

ANS: 3.5

PTS: 1 REF: Pages 32–33

8. Round off the following decimal to the nearest thousandth; if the answer is less than 1, place a 0 to the left of the decimal.  
 $0.6253 = \underline{\hspace{2cm}}$

ANS: 0.625

PTS: 1 REF: Pages 32–33

9. Perform the indicated operation with decimals. Express the answer to the nearest thousandth.  
 $64.1 - 0.009 = \underline{\hspace{2cm}}$

ANS: 64.091

PTS: 1 REF: Pages 27–28

10. Perform the indicated operation with decimals. Express the answer to the nearest thousandth; if the answer is less than 1, place a 0 to the left of the decimal.  
 $0.123 + 0.4 = \underline{\hspace{2cm}}$

ANS: 0.523

PTS: 1 REF: Pages 27–28

11. Perform the indicated operation with decimals. Express the answer to the nearest thousandth; if the answer is less than 1, place a 0 to the left of the decimal.  
 $0.46 \times 0.17 = \underline{\hspace{2cm}}$

ANS: 0.078

PTS: 1 REF: Page 29

12. Divide the following decimal. Express the answer to the nearest hundredth; if the answer is less than 1, place a 0 to the left of the decimal.  
 $0.1 \div 0.375 = \underline{\hspace{2cm}}$

ANS: 0.27

PTS: 1 REF: Page 32

13. Change the following to a decimal. Express the answer to the nearest ten-thousandth; if the answer is less than 1, place a 0 to the left of the decimal.  
 $1.25\% = \underline{\hspace{2cm}}$

ANS: 0.0125

PTS: 1                    REF: Pages 23–24

14. Indicate the largest number in the following set. If the answer is less than 1, place a 0 to the left of the decimal.

0.75, 0.749: \_\_\_\_\_

ANS: 0.75

PTS: 1                    REF: Pages 26–27

15. Indicate the largest number in the following set.

0.001, 1.25, 1.09: \_\_\_\_\_

ANS: 1.25

PTS: 1                    REF: Pages 26–27

16. Perform the indicated operation with decimals. Express the answer to the nearest hundredth.

$0.98 + 0.76 =$  \_\_\_\_\_

ANS: 1.74

PTS: 1                    REF: Pages 27–28

17. Perform the indicated operation with decimals. Express the answer to the nearest thousandth.

$9.123 - 6.055 =$  \_\_\_\_\_

ANS: 3.068

PTS: 1                    REF: Pages 27–28

18. Perform the indicated operation with decimals. If the answer has a number greater than 999, a space is to be put after the thousands place, for example 6 000 or 30 000.

$60 \div 0.012 =$  \_\_\_\_\_

ANS: 5 000

PTS: 1                    REF: Pages 31–32

19. Perform the indicated operation with decimals. Express the answer to the nearest thousandth.

$66.66 \times 3.33 =$  \_\_\_\_\_

ANS: 221.978

PTS: 1                    REF: Page 30

20. Change the following decimal to a fraction. Reduce the result to its lowest terms.

0.010 = \_\_\_\_\_

ANS: 1/100

PTS: 1                    REF: Pages 34–35

21. Change the following decimal to a fraction. Reduce the result to its lowest terms.  
0.006 = \_\_\_\_\_

ANS: 3/500

PTS: 1                    REF: Pages 34–35

22. Round off the following decimal to the nearest tenth. If the answer less than 1, place a 0 to the left of the decimal.  
0.52 = \_\_\_\_\_

ANS: 0.5

PTS: 1                    REF: Pages 34–35

23. Round off the following decimal to the nearest hundredth.  
2.457 = \_\_\_\_\_

ANS: 2.46

PTS: 1                    REF: Page 33

24. Round off the following decimal to the nearest tenth.  
28.66 = \_\_\_\_\_

ANS: 28.7

PTS: 1                    REF: Page 33

25. Round off the following decimal to the nearest tenth.  
1.45 = \_\_\_\_\_

ANS: 1.5

PTS: 1                    REF: Page 33

26. Round off the following decimal to the nearest thousandth. If the answer is less than 1, place a 0 to the left of the decimal.  
0.3333 = \_\_\_\_\_

ANS: 0.333

PTS: 1                    REF: Page 33

27. A patient weighed 75.4 kilograms (kg) in February. In March the patient gained 1.6 kg. In April the patient gained 2.2 kg. How much did the patient weigh in April? Express the answer to the nearest tenth. \_\_\_\_\_ kg

ANS: 79.2

PTS: 1 REF: Pages 27–28

28. A patient weighed 55.4 kilograms (kg) before getting ill. After a lengthy recovery, the patient weighed 49.7 kg. How many kilograms did the patient lose? Express the answer to the nearest tenth. \_\_\_\_\_ kg

ANS: 5.7

PTS: 1 REF: Pages 27–28

29. A medication vial holds 7 millilitres (mL) of medication. If 1.4 mL are withdrawn from the vial, how many mL are left in the vial? \_\_\_\_\_ mL

ANS: 5.6

PTS: 1 REF: Pages 27–28

30. A patient is brought into the emergency department with a body temperature of 35.6° C. If the normal body temperature is 37° C, how many degrees Celsius below normal is the patient's temperature? Express answer to the nearest tenth. \_\_\_\_\_ ° C

ANS: 1.4

PTS: 1 REF: Pages 27–28

31. A patient received 25.2 milligrams (mg) of medication in tablet form. Each tablet contained 4.2 mg of medication. How many tablets (tabs) were given to the patient? \_\_\_\_\_ tablet(s)

ANS: 6

PTS: 1 REF: Page 32

32. A patient received 0.375 mg of a medication for 2 days, 0.125 mg for 3 days, and 0.0625 mg for 4 days. What is the total mg of medication taken? Express the answer to the nearest thousandth. \_\_\_\_\_ mg

ANS: 1.375

PTS: 1 REF: Page 27 | Pages 29–30

33. The health care provider ordered 1.5 tablets of a medication to be given to a patient four times a day for 21 days. How many tablets were prescribed? \_\_\_\_\_ tablet(s)

ANS: 126

PTS: 1 REF: Pages 29–30

34. One dose of vaccine is 1.25 mL. How many mL of vaccine is needed to vaccinate 55 patients in a clinic? Express the answer to the nearest tenth. \_\_\_\_\_ mL

ANS: 68.8

PTS: 1 REF: Pages 29–30

35. The health care provider has ordered a 2 200-calorie (cal) diet for a patient. If the calories are spread evenly among three meals, how many calories will the patient be allowed to have at each meal? Express the answer as a whole number; do NOT include a decimal. \_\_\_\_\_ cal

ANS: 733

PTS: 1 REF: Page 31