

Chapter 01: Fractions

Killian: Gray Morris's Calculate with Confidence, 2nd Canadian Edition

COMPLETION

1. Reduce the following fraction to its lowest terms.

$$54/81 = \underline{\hspace{2cm}}$$

ANS: 2/3

2. Reduce the following fraction to its lowest terms.

$$105/135 = \underline{\hspace{2cm}}$$

ANS: 7/9

3. Reduce the following fraction to its lowest terms.

$$39/65 = \underline{\hspace{2cm}}$$

ANS: 3/5

4. Change the following improper fraction to a whole or mixed number. If the answer is a mixed number, put a space between the whole number and the fraction.

$$325/16 = \underline{\hspace{2cm}}$$

ANS: $20 \frac{5}{16}$

5. Change the following improper fraction to a whole or mixed number. If the answer is a mixed number, put a space between the whole number and the fraction.

$$1,500/100 = \underline{\hspace{2cm}}$$

ANS: 15

6. Change the following improper fraction to a whole or mixed number. If the answer is a mixed number, put a space between the whole number and the fraction.

$$193/62 = \underline{\hspace{2cm}}$$

ANS: $3 \frac{7}{62}$

7. Change the following mixed number to an improper fraction.

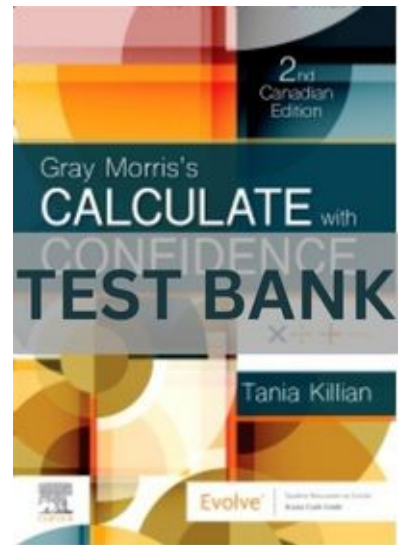
$$12 \frac{1}{8} = \underline{\hspace{2cm}}$$

ANS: 97/8

8. Change the following mixed number to an improper fraction.

$$29 \frac{2}{3} = \underline{\hspace{2cm}}$$

ANS: 89/3



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9. Perform the indicated operation and reduce the result to its lowest terms.
 $1/12 + 6/12 + 5/12 = \underline{\hspace{2cm}}$

ANS: 1

10. Perform the indicated operation and reduce the result to its lowest terms.
 $3/8 - 1/3 = \underline{\hspace{2cm}}$

ANS: 1/24

11. Perform the indicated operation and reduce the result to its lowest terms.
 $4/5 \times 5/16 = \underline{\hspace{2cm}}$

ANS: 1/4

12. Perform the indicated operation and reduce the result to its lowest terms.
 $1/12 \times 1/15 = \underline{\hspace{2cm}}$

ANS: 1/180

13. Perform the indicated operation and reduce the result to its lowest terms.
 $3/5 \div 5 = \underline{\hspace{2cm}}$

ANS: 3/25

14. Perform the indicated operation and reduce the result to its lowest terms.
 $1/100 \div 1/200 = \underline{\hspace{2cm}}$

ANS: 2

15. Indicate which fraction is the largest.
1/100, 1/150, 1/200:

ANS: 1/100

16. Arrange the following fractions from smallest to largest. After each fraction place a comma followed by a space.

$1/6, 1/5, 1/8, 1/4, 1/3: \underline{\hspace{4cm}}$

ANS: 1/8, 1/6, 1/5, 1/4, 1/3

17. Perform the indicated operation with fractions. Reduce each to its lowest terms.
 $1/5 + 1/2 + 1/4 = \underline{\hspace{2cm}}$

ANS: 19/20

18. Perform the indicated operation with fractions. Reduce each to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$16 \frac{5}{6} - 14 \frac{3}{8} = \underline{\hspace{2cm}}$

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ANS: $2 \frac{11}{24}$

19. Perform the indicated operation with fractions. Reduce each to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$6 \frac{10}{12} \times 15/3 = \underline{\hspace{2cm}}$

ANS: $34 \frac{1}{6}$

20. Perform the indicated operation with fractions. Reduce each to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$56 \div 9/20 = \underline{\hspace{2cm}}$

ANS: $124 \frac{4}{9}$

21. Indicate the largest number in the following set.

$5/6, 5/8: \underline{\hspace{2cm}}$

ANS: $5/6$

22. Indicate the largest number in the following set.

$1/30, 1/4, 1/150: \underline{\hspace{2cm}}$

ANS: $1/4$

23. Reduce the following fraction to its lowest terms.

$34/102 = \underline{\hspace{2cm}}$

ANS: $1/3$

24. Reduce the following fraction to its lowest terms.

$60/1200 = \underline{\hspace{2cm}}$

ANS: $1/20$

25. Express the following improper fraction as a mixed number. Reduce it to its lowest terms. With a mixed number, put a space between the whole number and the fraction.

$24/18 = \underline{\hspace{2cm}}$

ANS: $1 \frac{1}{3}$

26. Express the following improper fraction as a mixed number. Reduce it to its lowest terms. With a mixed number, put a space between the whole number and the fraction.

$15/13 = \underline{\hspace{2cm}}$

ANS: $1 \frac{2}{13}$

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27. Change the following mixed number to an improper fraction.

$$9 \frac{1}{9} = \underline{\hspace{2cm}}$$

ANS: 82/9

28. Change the following mixed number to an improper fraction.

$$6 \frac{7}{10} = \underline{\hspace{2cm}}$$

ANS: 67/10

29. Perform the indicated operation with fractions. Reduce each to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$$5 \frac{5}{16} + 5 \frac{3}{16} = \underline{\hspace{2cm}}$$

ANS: $11 \frac{1}{2}$

30. Perform the indicated operation with fractions. Reduce each to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$$4 \frac{3}{10} + 2 \frac{2}{10} = \underline{\hspace{2cm}}$$

ANS: $6 \frac{1}{2}$

31. Perform the indicated operation with fractions. Reduce each to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$$3 \frac{1}{5} + 3 \frac{2}{3} + 2 \frac{1}{2} = \underline{\hspace{2cm}}$$

ANS: $9 \frac{11}{30}$

32. Perform the indicated operation with fractions. Reduce each to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$$1 \frac{2}{4} + 3 \frac{1}{3} = \underline{\hspace{2cm}}$$

ANS: $4 \frac{5}{6}$

33. Perform the indicated operation with fractions. Reduce the result to its lowest terms.

$$15/21 - 10/21 = \underline{\hspace{2cm}}$$

ANS: 5/21

34. Perform the indicated operation with fractions. Reduce the result to its lowest terms.

$$8/16 - 1/4 = \underline{\hspace{2cm}}$$

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ANS: $\frac{1}{4}$

35. Perform the indicated operation with fractions. Reduce the result to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$$14 - \frac{5}{9} = \underline{\hspace{2cm}}$$

ANS: $13 \frac{4}{9}$

36. Perform the indicated operation with fractions. Reduce the result to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$$6 \frac{1}{4} - 2 \frac{5}{8} = \underline{\hspace{2cm}}$$

ANS: $3 \frac{5}{8}$

37. Perform the indicated operation with fractions. Reduce the result to its lowest terms. If the answer is a mixed number, put a space between the whole number and the fraction.

$$5 \frac{1}{3} - 1 \frac{7}{12} = \underline{\hspace{2cm}}$$

ANS: $3 \frac{3}{4}$

38. A patient received $2 \frac{1}{2}$ pills at breakfast and $2 \frac{1}{3}$ pills at lunch. How many pills has the patient received? If the answer is a mixed number, put a space between the whole number and the fraction. _____ pills

ANS: $4 \frac{5}{6}$

39. A patient who weighed $51 \frac{1}{2}$ kilograms (kg) lost $2 \frac{3}{4}$ kg due to illness. How many kilograms does the patient now weigh? If the answer is a mixed number, put a space between the whole number and the fraction. _____ kg

ANS: $48 \frac{3}{4}$

40. A patient drank $\frac{1}{2}$ of a 1-litre can of seltzer water. How many millilitres (mL) of seltzer water did the patient drink? _____ mL

ANS: 500

41. A patient is supposed to drink a 300-millilitre (mL) bottle of magnesium citrate before an X-ray study. The patient was able to drink 120 mL. How much of the magnesium citrate remains? Express the answer as a fraction reduced to its lowest terms. _____ mL

ANS: $\frac{2}{5}$

42. The nurse is instructed to give a patient $\frac{2}{3}$ of a 240-millilitre (mL) cup of solution. How many mL should the nurse administer? _____ mL

ANS: 160

Chapter 02: Decimals

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COMPLETION

1. Change the following to a decimal. Express the answer to the nearest thousandth, do not round; if the answer is less than 1, place a 0 to the left of the decimal.

$\frac{1}{64} =$ _____

ANS: 0.015

2. Change the following to a decimal. Express the answer to the nearest thousandth, do not round; if the answer is less than 1, place a 0 to the left of the decimal.

$\frac{5}{18} =$ _____

ANS: 0.277

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.

$7.025 =$ _____

ANS: $7 \frac{1}{40}$

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.

$0.0001 =$ _____

ANS: $\frac{1}{10\ 000}$

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

$0.6, 0.128 =$ _____

ANS: 0.6

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

$0.7, 0.67, 0.86: =$ _____

ANS: 0.86

7. Round off the following decimal to the nearest tenth.

$3.539 =$ _____

ANS: 3.5

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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

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

$$64.1 - 0.009 = \underline{\hspace{2cm}}$$

ANS: 64.091

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

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

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

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

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.

$$0.75, 0.749: \underline{\hspace{2cm}}$$

ANS: 0.75

15. Indicate the largest number in the following set.

$$0.001, 1.25, 1.09: \underline{\hspace{2cm}}$$

ANS: 1.25

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

$$0.98 + 0.76 = \underline{\hspace{2cm}}$$

ANS: 1.74

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

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$$9.123 - 6.055 = \underline{\hspace{2cm}}$$

ANS: 3.068

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.

$$60 \div 0.012 = \underline{\hspace{2cm}}$$

ANS: 5 000

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

$$66.66 \times 3.33 = \underline{\hspace{2cm}}$$

ANS: 221.978

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

$$0.010 = \underline{\hspace{2cm}}$$

ANS: 1/100

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

$$0.006 = \underline{\hspace{2cm}}$$

ANS: 3/500

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.

$$0.52 = \underline{\hspace{2cm}}$$

ANS: 0.5

23. Round off the following decimal to the nearest hundredth.

$$2.457 = \underline{\hspace{2cm}}$$

ANS: 2.46

24. Round off the following decimal to the nearest tenth.

$$28.66 = \underline{\hspace{2cm}}$$

ANS: 28.7

25. Round off the following decimal to the nearest tenth.

$$1.45 = \underline{\hspace{2cm}}$$

ANS: 1.5

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.

$$0.3333 = \underline{\hspace{2cm}}$$

ANS: 0.333

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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

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

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

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

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

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

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

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

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

Chapter 03: Ratio and Proportion

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COMPLETION

1. Solve for x in the following.

$$11:121 = 3:x$$

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

ANS: 33

2. Solve for x in the following. Round to the nearest hundredth.

$$4/2.6 = 5/x$$

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

ANS: 3.25

3. Solve for x in the following.

$$0.5/0.125 = x/4$$

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

ANS: 16

4. Solve for x in the following. Round to the nearest tenth.

$$500:3 = 350:x$$

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

ANS: 2.1

5. Express the following dosage as a ratio. Use only numbers; no spaces, for example 5:5.

A capsule that contains 450 mg of medication:

ANS: 1:450

6. Express the following dosage as a ratio of mg:mL. Use only numbers; no spaces, for example 3:5; if a number is less than 1, place a 0 to the left of the decimal.

An injectable solution contains 500 mg in each 0.7 mL:

ANS: 500:0.7

7. Solve for x .

$$2.2:1 = x:145$$

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

ANS: 319

8. Solve for x . Express the answer in the nearest thousandth; if the answer is less than 1, place a 0 to the left of the decimal.

$$2.8:9 = x:2$$

ANS: 0.062

9. Solve for x . Express the answer to the nearest tenth.