Chapter 1 Practice Test

Directions:

This is a 25-question practice test. It does not count toward your overall score, and you may take it as many times as you choose. Once you've completed a take, click on the [Guide] button in the **Results** section below for a study guide covering the questions that you missed.

1) QID: 35750

The King family traveled 294 miles from Mardville to Sky Springs and 275 miles from Sky Springs to Hamsberg. From Hamsberg, they traveled 432 miles back to Mardville. How many miles did they travel altogether?

- ○ 1,006 mi
- ○ 901 mi
- ○ 1,047 mi
- ○ 1,001 mi
- ○ None of the above

2) QID: 35842

Divide.

$16\overline{)208}$

- ○ 27
- ○ 14
- ○ 28
- ○ 13
- ○ None of the above

3) QID: 35804

Kevin will make loan payments of $220 each month for 36 months. What is the total amount of money that Kevin will pay?

- ○ $7,820
- ○ $792
- ○ $79,200
- ○ $7,920
- ○ None of the above

4) QID: 35880

Which of the following numbers is composite?

- ○ 37
- ○ 51
- ○ 2
- ○ 47
- ○ None of the above

5) QID: 35894

Find the prime factorization of 345.

- ○ 15×23
- ○ 3×115
- ○ $1 \times 5 \times 69$
- ○ $3 \times 5 \times 23$
- ○ None of the above

6) QID: 35957

Find the least common multiple of 24 and 18.

- ○ 432
- ○ 144
- ○ 216
- ○ 72
- ○ None of the above

7) QID: 35972

What is the least common multiple of 15, 6, and 18?

8) QID: 35933

Which number is the greatest common factor of 84 and 96?

- ○ 12
- ○ 2
- ○ 7
- ○ 112
- ○ None of the above

9) QID: 35964

What is the greatest common factor of 75, 30, and 45?

10) QID: 70835

What is six-sevenths of three-fourths?

If the answer is not a whole number, enter the answer as a fraction in simplest form. Do not enter a mixed number.

Find the product.

$$\frac{6}{25} \cdot \frac{15}{48}$$

Express the answer in simplest form.

- ○ $\frac{3}{40}$
- ○ $\frac{90}{2400}$
- ○ $\frac{18}{280}$
- ○ $\frac{8}{15}$
- ○ None of the above

Divide.

$$10 \div \frac{5}{6}$$

Express the answer in simplest form.

- ○ 2
- ○ 12
- ○ $\frac{1}{12}$
- ○ $\frac{1}{2}$
- ○ None of the above

Divide.

$$\frac{\frac{2}{7}}{\frac{14}{8}}$$

Express the answer in simplest form.

- ○ $\frac{8}{49}$
- ○ $\frac{1}{2}$
- ○ $\frac{49}{8}$
- ○ $\frac{4}{7}$
- ○ None of the above

Jay's grandmother is making two recipes for Thanksgiving. The first needs $\frac{1}{2}$ of a cup of flour, and the second $\frac{1}{3}$ of a cup of flour. How much flour will Jay's grandmother need to make the recipes?
If the answer is not a whole number, enter the answer as a fraction in simplest form. Do not enter a mixed number.

15) QID: 36135

The width of a doormat is $\frac{2}{3}$ of a yard. The doorway is $\frac{5}{6}$

of a yard wide. Find the difference in widths.

Express the answer in simplest form.

- $\frac{1}{6}$ yd
- $1\frac{2}{9}$ yd
- $\frac{5}{18}$ yd
- $1\frac{1}{2}$ yd
- None of the above

16) QID: 36254

Subtract.

$7\frac{1}{5} - 1\frac{2}{3}$

Express the answer in simplest form.

- 6
- $5\frac{8}{15}$
- $6\frac{8}{15}$
- $\frac{4}{53}$
- None of the above

SAMPLE

17) QID: 36250

Gus is making a tier cake to decorate. The bottom layer requires $7\frac{3}{5}$ cups of cake batter and the top layer requires $4\frac{2}{3}$ cups of cake batter. How much batter does he need in all?

Express the answer in simplest form.

- ○ $28\frac{2}{5}$ c
- ○ $11\frac{5}{8}$ c
- ○ $12\frac{4}{15}$ c
- ○ $11\frac{1}{15}$ c
- ○ None of the above

SAMPLE

18) QID: 36300

Multiply.

$4\frac{2}{3} \times 4\frac{3}{8} =$

- ○ $8\frac{4}{17}$
- ○ $20\frac{5}{12}$
- ○ $4\frac{9}{17}$
- ○ 9
- ○ None of the above

19) QID: 36342

Divide.

$2\frac{2}{3} \div 1\frac{3}{8} =$

- ○ $3\frac{2}{3}$
- ○ $1\frac{31}{33}$
- ○ 33/64
- ○ $1\frac{23}{33}$
- ○ None of the above

20) QID: 36349

Miguel has four strings. One is 21.26 centimeters long, one is 9.93 centimeters long, one is 62.06 centimeters long and one is 43.6 centimeters long. How many centimeters of string does he have in all?

- 141.92 cm
- 136.85 cm
- 92.25 cm
- 93.25 cm
- None of the above

21) QID: 36373

James has 8 milligrams of iron and 0.69 milligrams of silicon. How much more iron does he have than silicon?

- 7.31 mg
- 7.41 mg
- 73.1 mg
- 8.69 mg
- None of the above

22) QID: 36417

Find the product of 5.12 and 0.015.

- 7.68
- 76.8
- 0.0768
- 0.00768
- None of the above

SAMPLE

23) QID: 41182

Divide.
6.09 ÷ 0.7

- 0.87
- 87
- 870
- 8.7
- None of the above

24) QID: 36492

An article regularly selling for $84.53 is advertised at 60% off. Find the sale price to the nearest cent.

- $50.72
- $135.25
- $79.46
- $33.81
- None of the above

Which shows 1.1 as a mixed number in lowest terms?

- ○ $\dfrac{110}{100}$
- ○ $1\dfrac{1}{5}$
- ○ $1\dfrac{1}{10}$
- ○ $\dfrac{1}{10}$
- ○ None of the above