

Epsilon Placement Test

To receive the full benefit of this test, watch the student to ensure he has mastered all of the basic operations and fractions

If he demonstrates proficiency, he is ready to move on to Zeta.

If he struggles with fractions, he should begin working in Epsilon.

1) $\frac{2}{3}$ of 18 = _____

2) $\frac{7}{8}$ of 64 = _____

Fill in the missing numbers in the numerators or denominators to make equivalent fractions.

3) $\frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{\quad}{16}$

4) $\frac{9}{10} = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \frac{36}{\quad}$

Compare the fractions and write the correct symbol in the oval.

5) $\frac{5}{7}$ ○ $\frac{3}{5}$

6) $\frac{4}{8}$ ○ $\frac{3}{6}$

7) $\frac{5}{8} \times \frac{1}{3}$

8) $\frac{1}{2} + \frac{1}{4} + \frac{7}{8} =$

9) $\frac{1}{3} \div \frac{1}{5} =$

10) $\frac{4}{5} \times 2 \frac{3}{4} \times 3 \frac{1}{3} =$

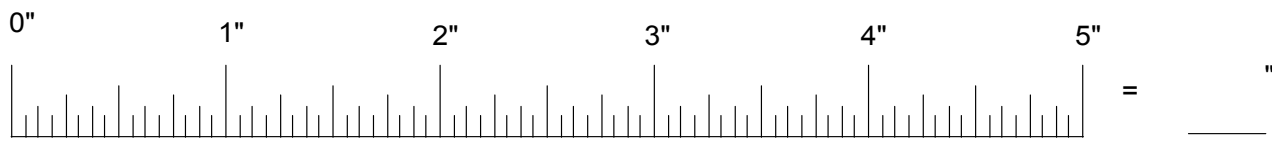
11) $3 \frac{4}{5} \div 2 \frac{7}{25} =$

12)
$$\begin{array}{r} 7 \frac{1}{4} \\ - 5 \frac{3}{4} \\ \hline \end{array}$$

13)
$$\begin{array}{r} 9 \frac{2}{3} \\ + 6 \frac{5}{9} \\ \hline \end{array}$$

How long is the line?

14)



15) Five eighths of the trees in my yard are eucalypts. If there are 16 trees in my yard, how many eucalypts?

16) Sophia used $\frac{2}{5}$ of her birthday money for school supplies and $\frac{1}{3}$ of it for gifts. What part of her birthday money has she spent so far?

17) Gavin saw $\frac{3}{4}$ of a pizza on the kitchen bench. By the time he was finished eating, there was only $\frac{1}{8}$ of a pizza left. What part of a pizza did Gavin eat?

18) Three eighths of the guests at the picnic ate hamburgers. One half of the people who ate hamburgers had tomato sauce on them. What part of the people at the picnic had hamburgers with tomato sauce?

19) Marcy had $\frac{3}{4}$ of her birthday cake left over. She wants to give each of her guests $\frac{1}{16}$ of a whole cake. How many people can she serve?

20) Bria has $3\frac{1}{8}$ kg of chocolates. If she divides them into portions that each weigh $\frac{5}{8}$ kg, how many people can she treat?

Epsilon Solutions

1) 12

2) 56

3) $\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16}$

4) $\frac{9}{10} = \frac{18}{20} = \frac{27}{30} = \frac{36}{40}$

5) $\frac{25}{35} > \frac{21}{35}$

6) $\frac{24}{48} = \frac{24}{48}$

7) $\frac{5}{24}$

8) $1 \frac{5}{8}$

9) $1 \frac{2}{3}$

10) $7 \frac{1}{3}$

11) $1 \frac{38}{57}$ or $1 \frac{2}{3}$ reduced

12) $1 \frac{1}{2}$

13) $16 \frac{2}{9}$

14) $2 \frac{5}{8}$ in.

15) 10

16) $\frac{11}{15}$

17) $\frac{5}{8}$

19) 12

18) $\frac{3}{16}$

20) 5