

**Practice Test**  
110/210/310 Math Assessment Preparation  
Developmental Studies  
Douglas College

The following problems are similar to those on the DVST 110/210/310 Math Assessment. You can use these problems and solutions to practice and prepare for that test.

**Section A – Whole Numbers**

$$\begin{array}{r} 1] \quad 8 \\ + \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2] \quad 1637 \\ + \quad 66 \\ \hline \end{array}$$

$$\begin{array}{r} 3] \quad 3047 \\ - \quad 663 \\ \hline \end{array}$$

$$\begin{array}{r} 4] \quad 16 \\ - \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5] \quad 3867 \\ - \quad 58 \\ \hline \end{array}$$

$$\begin{array}{r} 6] \quad 2004 \\ - \quad 36 \\ \hline \end{array}$$

$$\begin{array}{r} 7] \quad 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8] \quad 3607 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 9] \quad 306 \\ \quad \underline{\times 26} \end{array}$$

$$10] \quad 6 \div 4 =$$

$$11] \quad 7 \overline{)53}$$

$$12] \quad 23 \overline{)3519}$$

13] To cut one shelf 24 centimetres long and two shelves 65 centimetres long from a single board, how long must the board be?

14] A couch costs \$927. \$783.26 has been saved so far. How much more is needed?

15] A family can save \$75 each month to buy a new TV which costs \$675. How many months will it take before they can buy the TV?

- 16] In the warehouse, 432 containers of yogurt have been delivered. 12 containers can go in each box. How many boxes are needed for today's order?

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**Section B – Common Fractions**

1]  $\frac{1}{8} + \frac{3}{8} =$

2]  $\frac{5}{6} + 2\frac{1}{2} =$

3]  $3\frac{1}{4} - 2\frac{5}{7} =$

$$4] \quad 5 - 2\frac{7}{8} =$$

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$$5] \quad \frac{4}{15} \times \frac{5}{12} =$$

Reduce the fractions

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$$6] \quad \frac{3}{16} + \frac{8}{12} =$$

Convert these fractions into ones with the same denominator

7]  $\frac{4}{15} \div \frac{2}{5} =$



- 8] 15 samosas are needed for a party. Each samosa will contain  $2\frac{1}{2}$  ounces of ground chicken. How much ground chicken will be needed?
- 9]  $5\frac{1}{2}$  cupcakes are available for three hungry kids. Divided evenly, how much will each kid get?
- 10] The ages of students in a math class are: 21, 23, 19, and 21. What is the average age of these students?

**Section C – Decimal Fractions**

1]  $20.6 + 3.04 + 2.1 + 0.9 =$

2]  $3.8 - 1\frac{2}{5} =$

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3]  $34.6 \times 100 =$

4]  $24.2 \times 3.03 =$

5]  $3 \div 8 =$

6]  $.23 \overline{)4669}$

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7] A designer needs to edge 4 garments with gold trim. The 4 items of clothing will need 0.4 metres, 2.3 metres, 1.25 metres and 0.09 metres of this gold trim. How many metres of trim are needed altogether?

8] The manager of the track team wants to average the team's running times in the 100 metre event. The times are: 12.024 sec., 11.976 sec., 11.8 sec., and 12.128. What is the average time to the nearest hundredth?

**ANSWER KEY**Section A  
Whole Numbers

1. 15
2. 1703
3. 2384
4. 13
5. 3809
6. 1968
7. 54
8. 93782
9. 7956
10. 1 r2
11. 7 r4
12. 153
13. 154 cm long
14. 143.74
15. 9 months
16. 36 boxes

Section B  
Common Fractions

1.  $\frac{4}{8} = \frac{1}{2}$
2.  $2\frac{8}{6} \rightarrow 3\frac{2}{6} \rightarrow 3\frac{1}{3}$
3.  $\frac{15}{28}$   
the common  
denominator is 28
4.  $2\frac{1}{8}$
5.  $\frac{1}{9}$
6.  $\frac{41}{48}$   
the common  
denominator is 48
7.  $\frac{2}{3}$
8.  $37\frac{1}{2}$  ounces
9.  $1\frac{5}{6}$  cupcakes
10. 21

Section C  
Decimal Fractions

1. 26.64
2. 2.4
3. 3460.0
4. 73.326
5. 0.375
6. 20300
7. 4.04 metres
8. 11.98 seconds