

## Math Self Assessment

Complete this section without the use of a calculator. Showing your work is encouraged. Round to three decimal places if necessary.

1. State the place value for each digit in 162 370.0489

2.  $678 + 4533 + 70 =$

3.  $6585 - 3492 =$

4.  $56 \times 47 =$

5.  $2298 \div 14 =$

6. State the fraction  $\frac{28}{42}$  in simplest form.

7. Arrange the fractions in order from smallest to largest.

$$\frac{7}{10}, \frac{3}{5}, \frac{8}{15}$$

8. Multiply and simplify.

$$\frac{2}{3} \times 1\frac{4}{5} \times \frac{5}{8} =$$

9. Divide and leave your answer in simplest form.

$$2\frac{2}{7} \div 1\frac{11}{21} =$$

10. Anthony is trying to use left over pieces of wood to finish his fencing project. He measured the remaining pieces to be  $\frac{5}{9}$  ft and  $\frac{5}{12}$  ft. Determine the total length. State your answer as a fraction in simplest form.

11. A pre-mixed bag of fertilizer contains  $\frac{17}{20}$  of its contents. After removing  $\frac{7}{10}$  of the contents, how much of the pre-mixed fertilizer remains.

12. Convert  $2\frac{3}{16}$  to a decimal.

13. Solve the following proportions to three decimal places.

a)  $\frac{5}{6} = \frac{12}{x}$

b)  $\frac{p}{85} = \frac{76}{39}$

Complete these questions. Note a calculator can be used for questions 14 to 16 and round to 3 decimal points if necessary.

14. Complete the following chart.

1 centimetre	=	0.3937 in
1 centimetre	=	10 mm
1 inch	=	2.54 cm
1 foot	=	12 in
1 foot	=	0.3048 m

	feet (ft.)	inches (in)	metres (m)	centimetres (cm)
a)	8.5			
b)				5000
c)		125.5		
d)			22.6	

15. Determine the volume of an aluminum can 11 cm tall and 10 cm in diameter.  
(Note:  $V = b \times h$  or  $V = \pi r^2 \times h$ )

16. Calculate the area a rug 7 ft 4 inches by 11 ft 5 inches would cover. (Note:  $A = l \times w$ )