

Aspley State High School
Year 8 Numeracy Homework Sheet
Term 4, # 4

Name: _____ Parent's Signature: _____

Textbook Reference – Chapters 4, 5, 7, 9, 11

Part A – Revision

1. What is the complement of 73° ? _____

2. What is the supplement of 73° ? _____

3. What name is given to a 5-sided figure? _____

4.

a) $^{-}14 - ^{-}3 =$ _____ b) $^{-}9 - 2 =$ _____ c) $^{-}12 \times ^{-}4 =$ _____ d) $35 \div ^{-}5 =$ _____

5. Simplify

a) $8m \times 2m =$ _____ b) $8m + 2m =$ _____ c) $7k \times ^{-}3n =$ _____

d) $12y^2 + 5y - 9y^2 - 6y =$ _____ e) $3a - 5a - 2a =$ _____

6. Expand and simplify:

$3(2w + 5) + 4(3w - 2) =$ _____ = _____

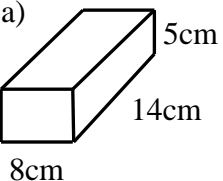
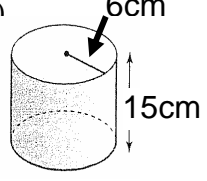
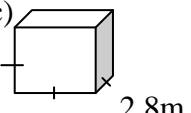
7. Solve for x

a) $^{-}8x + 35 = 3$	b) $5(2x - 7) + 8 = 23$
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8.

a) $3\frac{2}{5} + 1\frac{3}{8}$	b) $\frac{11}{12} - \frac{3}{4}$	c) $1\frac{7}{9} \times 3\frac{3}{8}$	d) $\frac{9}{16} \div 3\frac{3}{8}$
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9. Calculate Volume:

<p>a) </p>	<p>b) </p>	<p>c) </p>
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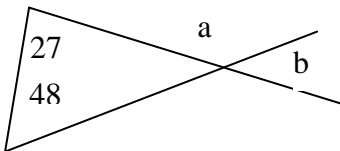
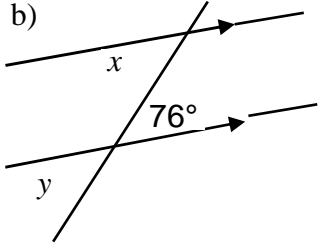
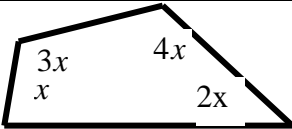
10. Complete

- a) $720\text{mm} = \underline{\hspace{2cm}}$ m b) $2540\text{m} = \underline{\hspace{2cm}}$ km c) $1\text{cm}^3 = \underline{\hspace{2cm}}$ ml
 d) $1\text{ha} = \underline{\hspace{2cm}}$ m^2 e) $4\text{m}^3 = \underline{\hspace{2cm}}$ L f) $1.68\text{ kg} = \underline{\hspace{2cm}}$ g

11. A six-sided die, labelled, 1, 2, 3, 3, 4, 5 is rolled. Find

- a) $P(\text{getting a 2}) = \underline{\hspace{2cm}}$ b) $P(\text{getting a number greater than 3}) = \underline{\hspace{2cm}}$
 c) $P(\text{getting a 6}) = \underline{\hspace{2cm}}$ d) $P(\text{getting an even number}) = \underline{\hspace{2cm}}$

12. Find the value of the marked angle, giving coded reason.

<p>a)</p> 	<p>b)</p> 	<p>c)</p> 
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13. a) Circumference of a circle = $\underline{\hspace{2cm}}$

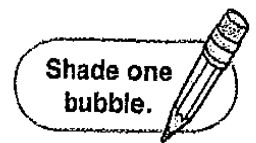
b) If the diameter of a circle is 17cm, the radius = $\underline{\hspace{2cm}}$

Part B – NAPLAN

1. Use two of the numbers 3, 4, 5, 8, 15, 20 to make a fraction equal to $\frac{2}{5}$.

2. (Non-Calculator)

Which one of the following is the largest?



63%

$\frac{3}{5}$

0.065

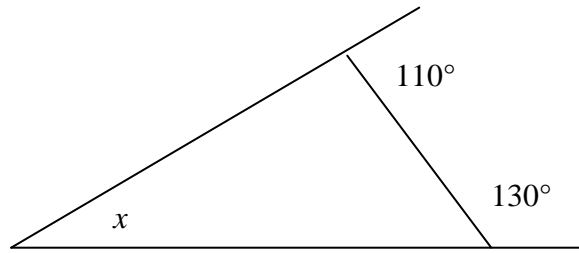
$\frac{16}{25}$

3. Two squares are drawn such that the ratio of their sides is 2:3. If the area of the smaller square is 64cm^2 , find the area of the other square.

4. (Non-Calculator)

Find the value of $\frac{48 \div (-2)^2}{6 - 4 \times 3}$

5. What is the size of angle x .



60°

70°

55°

80°

6. An ocean racing yacht averages 38 km/hr for a full day. What distance has been covered?

38kms

912 km/hr

91.2kms

912kms

7. The complement of 85° is

An acute angle

An obtuse angle

A right angle

A reflex angle

8. A prism 8 cm tall has an irregular isogonal base with an area of 1750mm^2 . What is the volume of this shape?

$14\,000\text{mm}^3$

$1\,400\text{cm}^3$

140cm^3

14cm^3

PART C - PROBLEM SOLVING

Mario's Italian Restaurant has analysed the sales of its pizzas. The ratio of Hawaiian to Vegetarian is 5 : 2 while the ratio of Vegetarian to Supreme is 3 : 7. If the shop sold 28 Supreme pizzas, how many Hawaiian pizzas were sold?