

Aspley State High School
Year 8 Numeracy Homework Sheet
Term 4, # 5

Name: _____ Parent's Signature: _____

Textbook Reference – Chapters 2, 4, 5, 7, 9, 11

Part A – Revision

1. Choose from this list to classify the angles below.

Acute angle, obtuse angle, right-angle, straight angle, reflex angle, revolution

- a) $90^\circ =$ _____ b) $311^\circ =$ _____ c) $88^\circ =$ _____
d) $360^\circ =$ _____ e) $91^\circ =$ _____ f) $180^\circ =$ _____

2. What name is given to a 10-sided figure? _____

3.

- a) $-12 + 15 =$ _____ b) $-12 - 5 =$ _____ c) $-10 \times 3 =$ _____ d) $-28 \div -4 =$ _____

4. Expand: $-6y(5y + 2) =$ _____

5. Solve for x .

a) $\frac{x}{4} - 19 = 3$	b) $\frac{4x - 1}{7} = 5$
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6.

a) $4\frac{2}{3} + 1\frac{1}{6}$	b) $\frac{4}{5} - \frac{3}{8}$	c) $2\frac{1}{4} \times 1\frac{1}{3}$	d) $3\frac{1}{2} \div 1\frac{3}{4}$
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7. Write as a percentage.

a) $0.12 =$ _____

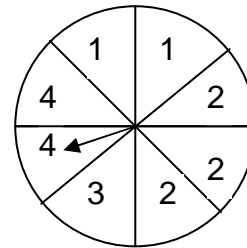
b) $1.03 =$ _____

c) $\frac{685}{800} =$ _____

8. Calculate

a) 27% of \$1462	b) 35.5 % of 950 km
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9. For this spinner, what is the probability of getting



a) an even number = _____

b) 3 = _____

c) 2 or 3 = _____

d) 5 = _____

e) a number greater than 2 = _____

10. Express the following as a rate in simplest form.

a) A car used 10 litres to travel 95 kms. _____

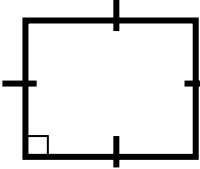
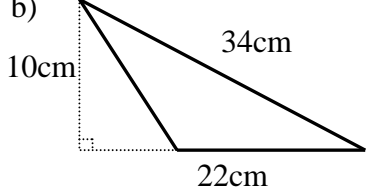
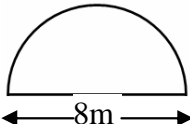
b) 3 kgs of apples cost \$5.25 _____

c) A team scored 216 points in 12 games _____

11. Find the value of the marked angle giving coded reasons.

<p>a)</p>	<p>b)</p>	<p>c)</p>
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12. Calculate area.

<p>a)</p>  <p style="text-align: right;">12cm</p>	<p>b)</p> 	<p>c)</p> 
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Shade one bubble.



PART B – NAPLAN

1. In the first term test Nic scored 48 out of 60. If his second term test was 57 out of 75, the better result was the :

First term test by,
4%

First term test by,
11%

Second term test,
by 4%

Second term test, by
11%

2. Last week Aroha earned \$460 for 20 hours. If she works for 25 hours this week, how much will she be paid?

3. (Non-Calculator)

Which of the following simplifies to $\frac{3}{4}$?

$$\frac{9}{16}$$

$$\frac{20 \times 15}{16 \times 25}$$

$$\frac{15 - 3 \times 2}{6 + 2 \times 5}$$

$$\sqrt{\frac{9}{16}}$$

4. (Non-Calculator)

At a party there were 16 boys. If 12 girls were invited, but a quarter of them could not come, how many people were at the party?

5. (Calculator)

Find the value of $\sqrt{(-4)^2 + (-3)^2}$

6. A bag contains 15 red marbles and 5 blue marbles. If 12 marbles are chosen at random, what is the most likely number of each marble?

6 red & 6 blue

7 red & 5 blue

8 red & 4 blue

9 red & 3 blue

7. (Non-Calculator)

A diver received the following scores from 8 judges.

6.4, 6.8, 5.9, 6.4, 6.2, 7.0, 5.5, and 6.7.

If the highest and lowest scores are to be ignored, what is the total score?

8. (Calculator)

A prism has a cross-section area of 20cm^2 . If its volume is 370cm^3 , its height is

740 cm

390 cm

350 cm

18.5 cm

PART C – PROBLEM SOLVING

Here are two cog wheels. The small one has a diameter of 8 cm and the big one has a radius of 40 cm. How many turns will the small cog make to turn the big cog one full turn?

