

## **Year 7 Mathematics 2011**

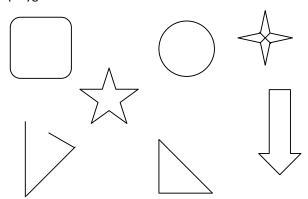
## **Percentages, Geometry and Time Test**

Time allowed:

Answer (3) \_\_\_\_\_ [3]

1. Fill in the ta	ble below			
	Percentage	Decimal	Fraction (simplest form)	
	75%			
		0.4		
			4 5	
2. Rachael has	a bag of 50 Iollies, she give	s out 60% to her cla	ssmates. How many	do her classmates get?
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3. Ngahuia de	cides to spend her pocket m f the remainder at Dotti. She	oney at the mall. S	A ne spends 20% of her	nswer (2) r money at Supre and
3. Ngahuia deo then 50% of	cides to spend her pocket m f the remainder at Dotti. She	oney at the mall. S	A ne spends 20% of her	nswer (2) r money at Supre and

4.	Circle all the	nolvgons	shown	below



5. Connect the polygon with the correct definition by drawing a line.

[3]

[2]

Decagon
Pentagon
Heptagon
Trapezium
Rhombus

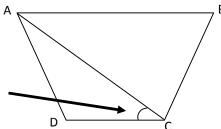
Scalene Triangle

A four sided polygon with one pair of parallel sides.
A seven-sided polygon.
A triangle with no sides or angles the same.
A five-sided polygon.
A four sided polygon with all sides equal and two pairs of parallel sides.
A 10-sided polygon.

6. Draw a picture of a rectangle showing (Ensure you mark sides of equal length, parallel sides and angles) [2]

7. Draw an angle of 68° and state the type of angle

8. Look at the diagram below and answer the following questions.



(a) Using three point notation, name the angle shown

Answer (a) \_\_\_\_\_ [1]

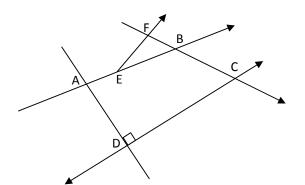
(b) Measure the angle ADC and state what type of angle it is

Answer (b) \_\_\_\_\_ [2]

9. Using your compass, draw a circle in the space provided, carefully labelling the centre O, the radius  $\overline{AO}$ , and the diameter  $\overline{BC}$ .

- 10. Answer the following questions as True (T) or False (F) [5]

  (a) A rectangle is a parallelogram
  - (b) A regular triangle is isosceles
  - (c) A polygon can have a curved side
  - (d) A regular quadrilateral is called a square
  - (e) A rhombus is regular
- 11. Look at the diagram below and then answer the questions.



a) Name a line

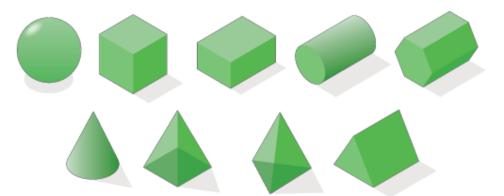
\_\_\_\_\_

[3]

b) Name the intersection of  $\overrightarrow{AB}$  and  $\overrightarrow{EF}$ 

c)  $\overline{AD}$  and  $\overline{DC}$  are ....

12. Answer the questions below about the solids shown:



a)	Name solid E		 [1]

- b) Name solid F \_\_\_\_\_\_ [1]
- c) Which solid has only two faces? [1]
- d) Which Solid has only two edges? [1]
- e) Name the number of Edges, Vertices and Faces of Solid I Edges \_\_\_\_\_ [1]
  - Vertices \_\_\_\_\_ [1]
  - Faces \_\_\_\_\_ [1]

f) Sketch the net of Solid C

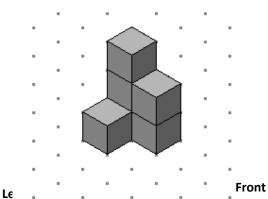
[1]

g) Sketch an Oblique view of Solid D

[1]

[3]

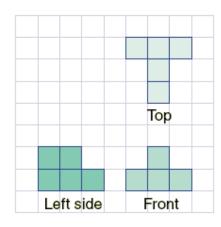
13. Draw the front, left and top view of the isometric solid shown



14. Draw an isometric projection of the following solid on the isometric grid below, the darker edge should be closes to you.



15. Determine the figure that would give the following views and draw the solid below:





[2]

[1]

16. Fill in the following questions on time.

a) Rewrite 7:36 am in 24-Hour time.

\_\_\_\_\_[1]

b) Rewrite 1840 hours in standard 12-Hour time.

\_\_\_\_\_[1]

c) How many seconds in 7 minutes?

\_\_\_\_\_[1]

d) Write the time shown on the clock in 24- hour time

17. Connect tl	าe wo	rds or	n the	left w	ith th	e cori	ect d	efiniti	ion 									[2
	Leap Year									10 Years								
	Decade									100 Years								
	Fortnight									366 Days								
	Century												14 d	ays				-
18. Study the															Manager Co.	100		
orough Green, alley Hospital ondays to Fridays	Wrot	ham, '	West	Kings	down	ı, Eyn	sford	, Farn	ingha	am to	Swan	iley, F	lextal	ole, Da	artfor	d, Dar	ent	
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tobello sford Rail Station		07:27	07:27	09:42	.,	10:12	11:42	12:42	13:42	14:42				15:59	16:17	16:17	17:42	18:
ningham Village anley Station	06:21 06:33	07:31 07:43	07:31 07:43	09:46 09:58	09:39	10:16 10:28	11:46 11:58	12:46 12:58	13:46 13:58	14:46 14:58				16:03 16:13	16:21 16:33	16:21 16:33	17:46 17:58	18:
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rent Valley Hospital		08:28	08:19			10:59		13:29	<u></u>	15:29								
b) Im Vi c) Ni	ow manogen llage? chola Dartf	gets t	to Wr	othan e 14:3	n Squa	are at	: 11:0	0, wh	at is t	he ea	rliest	time	she c	an arr				[
	sectio							e follo	owing	-	tions.			[	F	EBR	UAR	Y
_	ection								M	31		.0 17	24		MO .	7	14	-
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_	ectior					_	[1]		ΤŢ	J	4 1	.1 10			TU :	1 8	15	
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(b) What c	day did			f Dece	embei			vious	W. TH	E H	5 1 6 1 7 1	.2 19 .3 20 .4 21	26 27 28		WE 2 TH 3 FR 4	2 9 3 10 4 11	16 17 18	22 23 24 25
(a) Is the s	day did			f Dec	embei	r of th		vious	W. TH	E H R A <b>1</b>	5 1 6 1 7 1 8 1	.2 19 .3 20	26 27 28 29		WE 2 TH 3 FR 4	2 9 3 10 4 11 5 12	16 17 18	22 23 24 25 26

[1]

20. Using t	he map of Australia shown determine the correct	t time in the following places.						
a)	What would the time be in Western Australia	Australian Time Zones						
	(WA) if it is 3 pm in New South Wales (NSW)?							
	[1]							
b)	What would the time be in South Australia							
	(SA) if it is 5 am in Western Australia (WA)?	Ah						
	[1]	Western time Central EST is 2 hours time behind EST is $\frac{1}{2}$ an hour Time						
c)	The time in the Northern Territories (NT) is	behind EST						
	1840 hours, what time is it in Victoria (VIC)? (Giv	ve your answer in 24 hour time)						
	[1]							