

SYDNEY TECHNICAL HIGH SCHOOL

(Celebrating 100 Years of Public Education)

YEAR 7 TERM 3 ASSESSMENT TASK 2011

Mathematics

General Instuctions

- Working time 65 minutes
- Write using black or blue pen
- All necessary working should be shown in every question
- · All questions are of equal value
- Diagrams are not drawn to scale
- Total marks 60

Section 1 - 35 minutes

- Calculators are not to be used
- Answer questions in the space provided
- Select the alternative A, B, C or D that best answers the question and fill in the response oval on the answer sheet.

Section 2 - 30 minutes

- Calculators are not to be used
- Time allowed for this section is 30 minutes

Name :	FILE	
Teacher:		<u> </u>

Section 1	Section 2	Total

Name:	
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SYDNEY TECHNICAL HIGH SCHOOL

YEAR 7 YEARLY EXAMINATION 2011

MATHEMATICS

Paper A

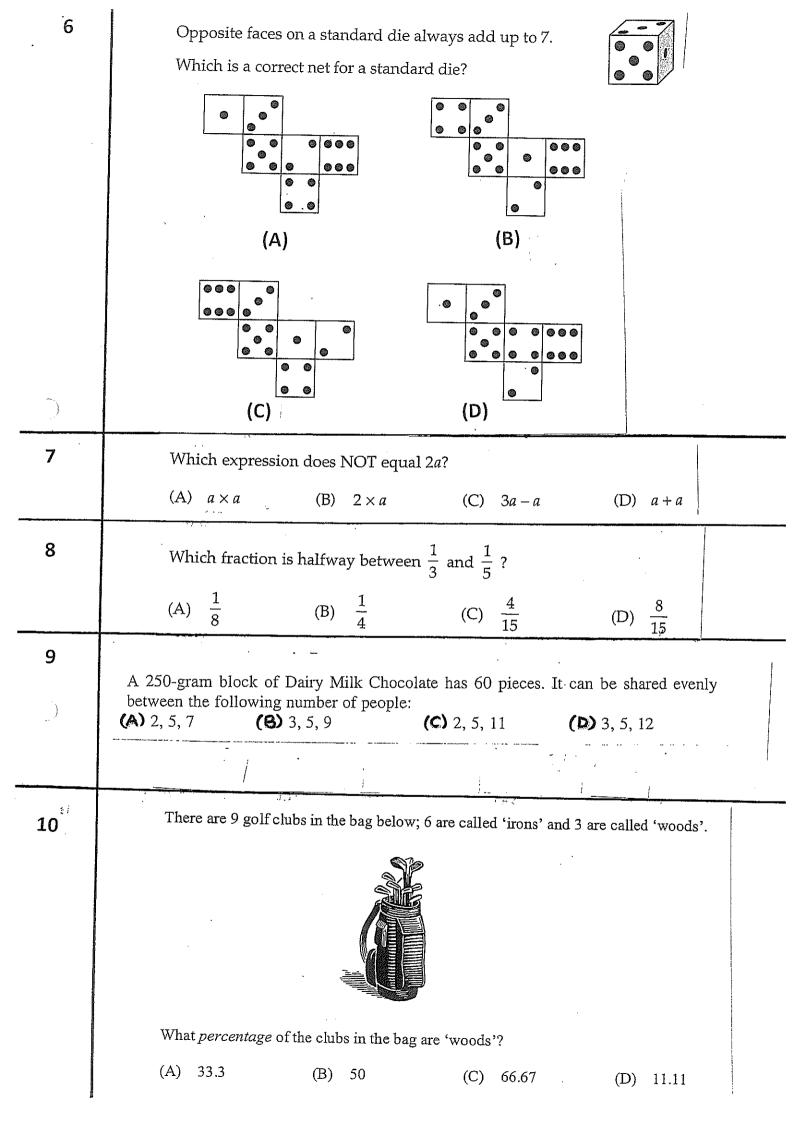
SECTION 1 Multiple Choice (30 marks)

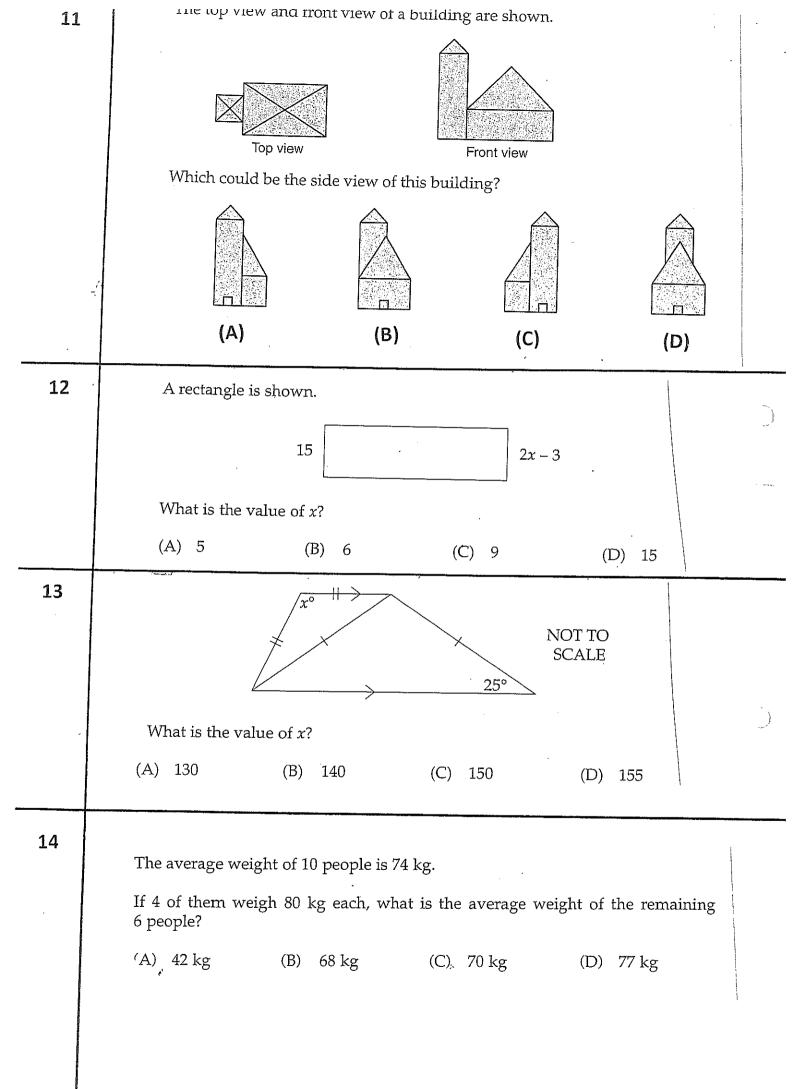


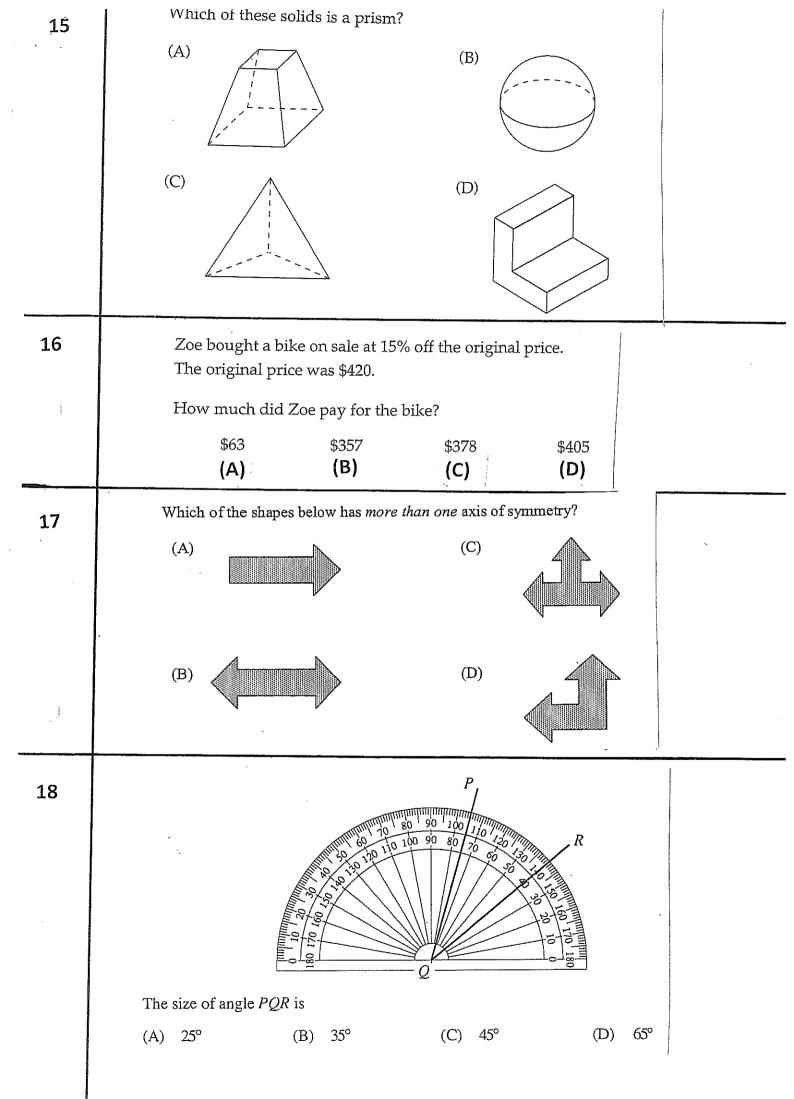
	SECTION 1 Multiple Choice (30 m	iarks)	•	
1	6.8 million is the same as (A) 680 000 (B) 6 080 000	(C) 6 800 000	(D) 68 000 000	
2	$\frac{6+12}{6-3} = $ (A) 0 (B) 5	(C) 6	(D) 10	
3	Mohamed buys a hamburger for \$2.45, two \$1.35. His change from \$10 is (A) \$4.10 (B) \$4.85	cups of fries at \$1 (C) \$5.15	·05 each and a drink for (D) \$5.90	
4	Sticks are used to make this pattern of p In this pattern the rule for the number of (A) 5 × number of pentagons. (B) 4 × number of pentagons. (C) 5 × number of pentagons - 1. (D) 4 × number of pentagons + 1.			
5	Which of these expressions is equivalent	to 3mn ² ?		

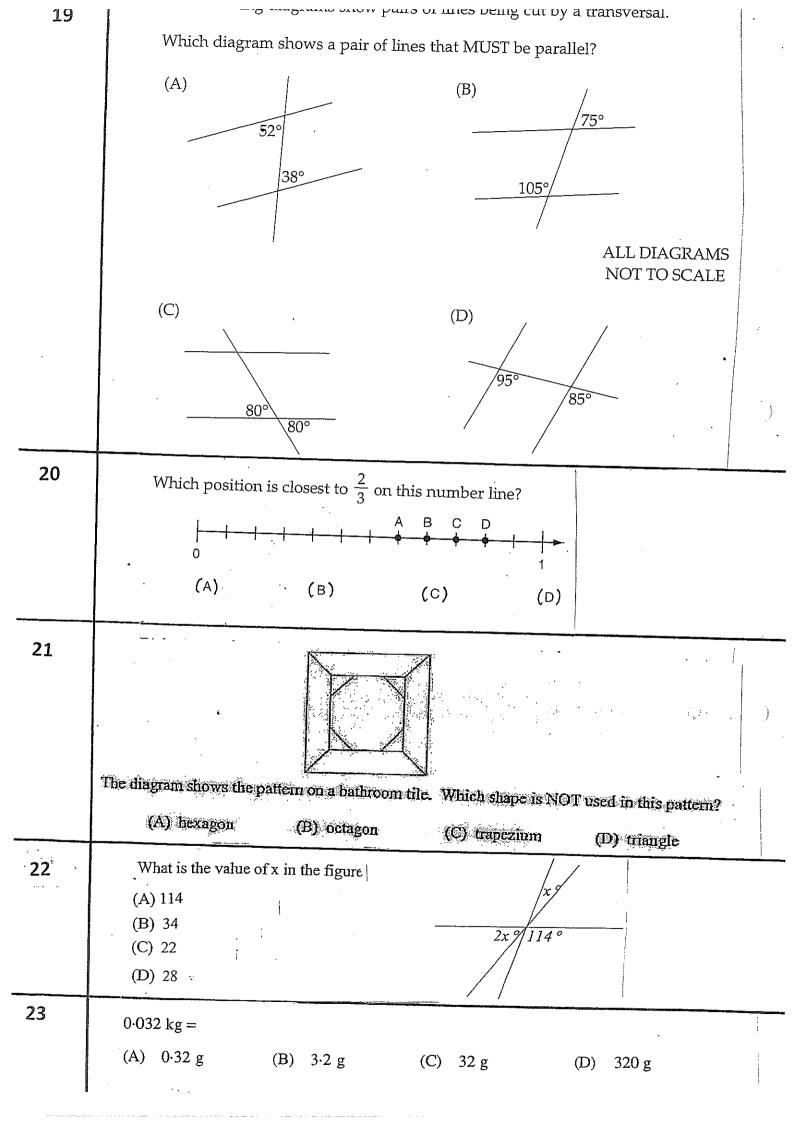
(B) $3 \times m \times n \times 2$

(D) $3 \times m \times n \times 3 \times m \times n$









•	Front	
Susan		
	Angela	
		.:

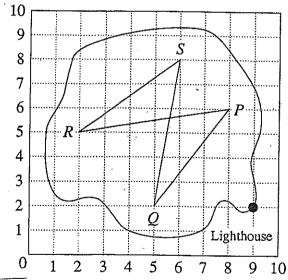
The classroom is arranged for students to work at pairs of desks in 5 rows.

Angela has been told to move to the desk next to Susan's.

Which one of the following paths will get her there?

- (A) Back 1 row, left 3 desks, forward 4 rows.
- (B) Forward 2 rows, left 3 desks, forward 1 row.
- (C) Left 1 desk, back 3 rows, right 3 desks.
- (D) Right 2 desks, back 3 rows, left 5 desks.





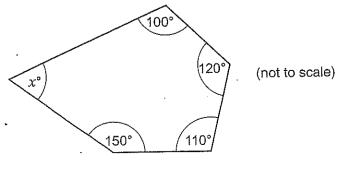
A lighthouse on a small island is located at (9, 2).

A runway is to be built on the island between the points (2, 5) and (8, 6).

The correct position of the runway is

- (A) R-P
- (B) RS
- (C) QP
- (D) QS

26



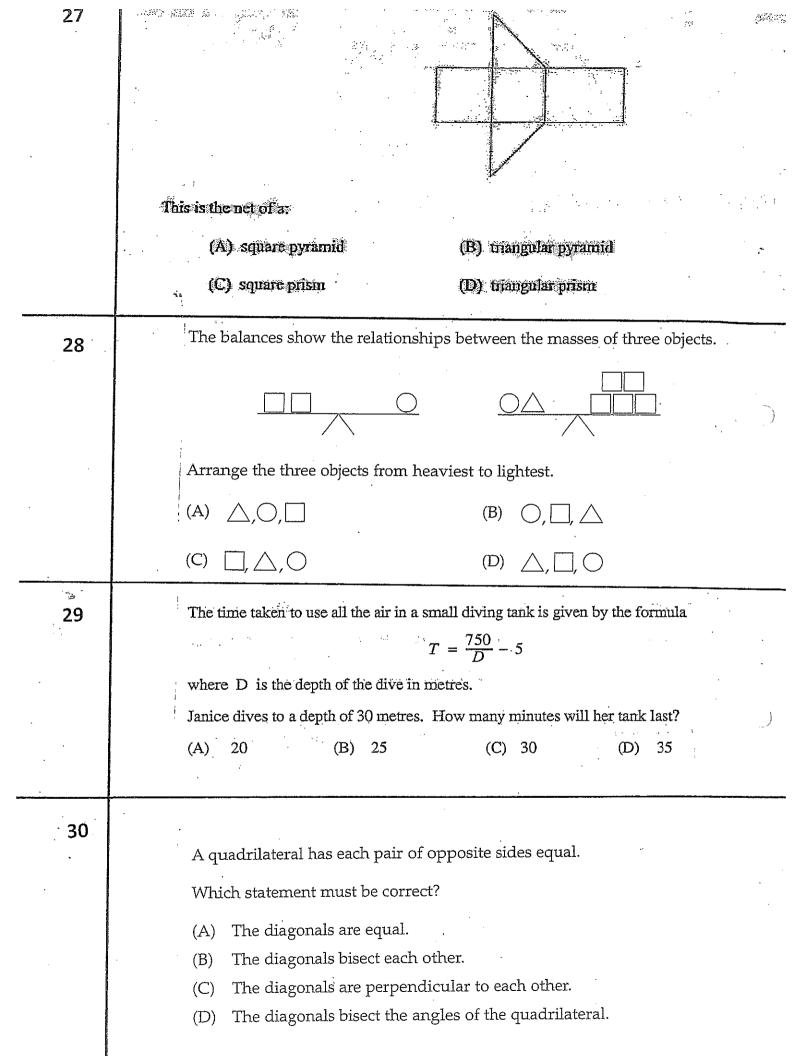
What is the value of x?

(A) 20

(B) 60

(C) 8

(D) 120



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SYDNEY TECHNICAL HIGH SCHOOL

YEAR 7

SECTION 1 ANSWER SHEET

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Select the alternative A, B, C or D that best answers the question. Fill in the response oval completely.

If you think you have made a mistake, put a cross through the incorrect answer and fill in the new answer.

Α	в 💢	c 🔾	D

If you change your mind and have crossed out what you consider to be the correct answer, then indicate the correct answer by writing the word *correct* and drawing an arrow as follows.



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1	$A \bigcirc$	в 🔾	C O	DO		16	$A \bigcirc$	в	c O	D.O
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3	$A \bigcirc$	В	c \bigcirc	$D \bigcirc$	·	18	$A \bigcirc$	В	C 🔾	$D \bigcirc$
4	$A \bigcirc$	$\mathbf{B} \bigcirc$	c O	\overline{D}		19	$A \bigcirc$	В 🗘	C \bigcirc	$D \bigcirc$
5	$A \bigcirc$	В	Ç 🔾	$D.\bigcirc$		20	$A \bigcirc$	В	СО	D 🔾
6	$A \bigcirc$	В Ċ	c O	$D \bigcirc$		21	$A \bigcirc$	в	ĊO	D O
7	$A \bigcirc$	$B \bigcirc$	c O	$\mathbb{D} \bigcirc$		22	$A \bigcirc$	В⊖	C 🔾	$D \bigcirc$
8	$A \bigcirc$	$\mathbb{B} \cdot \mathbb{O}$.C 🔘	$D \bigcirc$		23	A .	В	C	$D \bigcirc$
9	$A \bigcirc$	ВО	$c \bigcirc$	DO		24	$A \bigcirc$	$B \bigcirc$	$c \bigcirc$	$D \bigcirc$
10	$A \bigcirc$	В	√ C ⊙	$D \bigcirc$		25	$A \bigcirc$	В	$c \bigcirc$	D.O
11	$A \bigcirc$	В 🛈	¢ 🔾	$D \bigcirc$		26	$A \bigcirc$	В	$c \odot$	$D \bigcirc$
12	A. 🔿	$B \bigcirc$	$\mathbf{C} \bigcirc$	$D \bigcirc$		27	$A \bigcirc$	В	C_{i}	$D \bigcirc$
13	$A \bigcirc$	$B \bigcirc$	$C \bigcirc$	\mathbf{D}		28	$A \bigcirc$	$B \bigcirc$	c O	$D \bigcirc$
14	$A \bigcirc$	$B \odot$	$C \bigcirc$	$D \bigcirc$		29	$A \bigcirc$	$B \bigcirc$	C O	$D \cap \bigcirc$
15	$A \bigcirc$	В	$C \cdot \bigcirc$	$D \bigcirc$		30	$A \bigcirc$	$B \bigcirc$	C \bigcirc	$D \bigcirc$



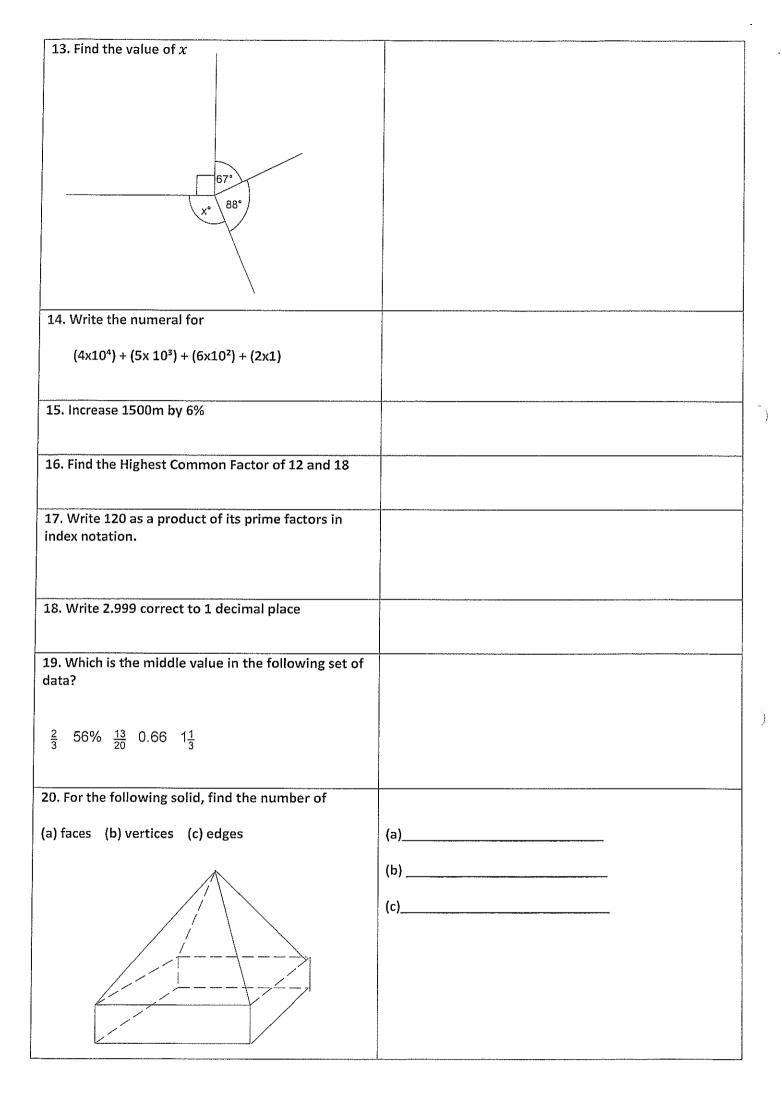
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> P		1E J	EN.	•

NAME:
TEACHER:

Write all answers on the sheet in the answer column

Time: 30 minutes

1. Write 98 using Roman Numerals	
2. Evaluate $\frac{6}{7} \div 1\frac{1}{2}$	
3. 1.7948 ÷ 0.0007 =	•
3. 1.7. 10. 7. 0,000,7	
). State the first three triangular numbers.	
5. Insert grouping symbols to make the following statement true:	
31 + 35 ÷ 5 + 2 = 36	
6. Find the Lowest Common Multiple of 12 and 15	
7. What fraction of 3 hours is 25 minutes?	
8. Find $\sqrt[3]{216}$ if 216 = 2x2x2x3x3x3	
9. The supplement of 72°	
10. Simplify 9 <i>wx</i> x 5 <i>xy</i> x 2 <i>y</i>	
11. Convert $\frac{1}{6}$ to a recurring decimal	
12. If \$1006.60 was shared equally between 7 people, how much would each person receive?	



21. If 456 x 987 = 450072, write down the value of	
4.56 X 98.7	
22. State whether FG and AD are parallel,	
perpendicular or skew.	
Вс	
A	
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	0
Н Н	
E	
23. Name the angle marked	
АВ	
D E	
_	
24. Find the algebraic rule that links $x \ and \ y$	
x 1 2 3 4	
y 6 8 10 12	
5. Write an algebraic expression for seven less than	
the product of g and h	
26. Three items weighing 2.1kg, 1.65kg, and 3.47kg	
are to be posted. By how much does the total weight exceed 7.15kg?	
chacca / izong.	
27. Find the number if $\frac{4}{7}$ of the number is 24.	
7 of the number is 24.	
28. How many degrees are there in $\frac{2}{5}$ of a	
evolution?	

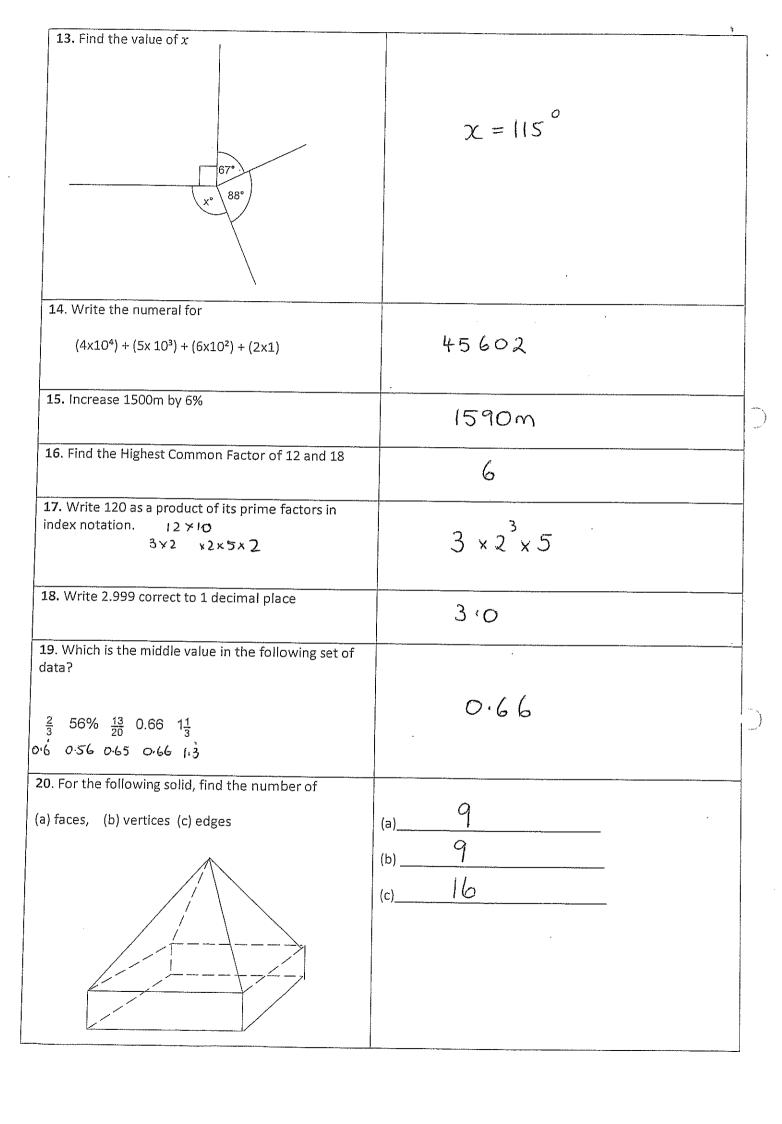
NAME:	
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TEACHER:____

Write all answers on the sheet in the answer column

Time: 30 minutes

1. Write 98 using Roman Numerals	
2. Write 30 daing Roman Numerals	XCVIII
2. Evaluate $\frac{6}{7} \div 1\frac{1}{2}$	<u>4</u> 7
3. 1.7948 ÷ 0.0007 =	2564
4. State the first 3 triangular numbers	1, 3, 6
5. Insert grouping symbols to make the following statement true: $31 + 35 \div (5 + 2) = 36$	
6. Find the Lowest Common Multiple of 12 and 15	60.
7. What fraction of 3 hours is 25 minutes?	$\frac{25}{180} = \frac{5}{36}$
8. Find $\sqrt[3]{216}$ if 216 = 2x2x2x3x3x3	6
9. The supplement of 72°	108°
10 . Simplify 9wx x 5xy x 2y	90 wrzy 2
11. Convert $\frac{1}{6}$ to a recurring decimal.	0.16
12. if \$1006.60 was shared equally between 7 people, how much would each person receive?	\$143.80
	·



4.56 X 98.7	450.072			
22. State whether FG and AD are parallel, perpendicular or skew.				
A B B B B B B B B B B B B B B B B B B B	skew			
23. Name the angle marked	< DAE or <ead< td=""></ead<>			
24. Find the algebraic rule that links x and y $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	y=2x+4			
5. Write an algebraic expression for seven less than le product of g and h	gh -7			
6. Three items weighing 2.1kg, 1.65kg, and 3.47kg re to be posted. By how much does the total weight kceed 7.15kg?	0:07kg or 700			
7. Find the number if $\frac{4}{7}$ of the number is 24.	42			
3. How many degrees are there in $\frac{2}{5}$ of a volution?	144°.			

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SYDNEY TECHNICAL HIGH SCHOOL

YEAR 7

SECTION 1 ANSWER SHEET

Name	9
ivame	

Select the alternative A, B, C or D that best answers the question. Fill in the response oval completely.

If you think you have made a mistake, put a cross through the incorrect answer and fill in the new answer.

A B C D O

If you change your mind and have crossed out what you consider to be the correct answer, then indicate the correct answer by writing the word correct and drawing an arrow as follows.



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1	A 🔾	BO	C @	DO			16	A 🔾	В 🕲	с О.	DO
2	A 🗀	$B \cdot \bigcirc$	C @	$D \bigcirc$			17	$A \bigcirc$	В	c O	DO
3	A @	\mathbb{B}	c O	$D \bigcirc$	·	ŀ	18	$A \bigcirc$	В	c 🔾	DO.
4	$A \bigcirc$	$B \cdot \bigcirc$	C \bigcirc	D @			19	$A \bigcirc$	В 🕮	c O	DO
5	Α 🥯	В 🔿	Ċ O	DO	•		20	A 🔿	В 🕮	c \odot	D O
6	$A \bigcirc$	В 🔾	C @	\mathcal{D}		j	21	A @	ВО	,c O	DÖ
7	A 🚳	ВO	C 🔾	$D \bigcirc$			22	$A \bigcirc$	ВО	. C @	D ()
8	$A \cap$	\mathbb{B}	C @	$D \bigcirc$			23	A :O:	ВО	C @	D ().
9	Α👿	$B \bigcirc$	$\mathbb{C} \bigcirc$	D			24	A 🜑	В	c O	D 🔯
10	A @	$B \bigcirc$	C ⊙	$D \bigcirc$			25	A @	вО	c O	D O
11	$A \bigcirc$	В	Ç 🔾	D 📟			26	A 🔾	В 🕮	c O	D 🗇
12	A. 🔿	В	C @	D.O			27	A 🔾	ВО	C. ()	D @
13	Á 🔘	$B \bigcirc$	C 🔾	$\mathbf{D} \odot$			28	A @	вО	C ()	DO
14	$A \bigcirc$	$B \bigcirc$	C @	$D \bigcirc$			2 9	A @	ВО	C ()	D· ()
15	$A \bigcirc$	ВО	$C \cdot \bigcirc$	D @			30	$A \bigcirc$	В	C ()	DO
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