



CROSBY ACADEMIC PRIMARY SCHOOL

MATHEMATICS

GRADE 7

TEST 1 TERM 1

2017

DURATION: 1 HOUR

TOTAL: 50 MARKS

NAME: Memo

EXAMINER: T.HASSEN

MODERATOR: S. DINAT

DATE: 13 March 2017

GRADE 7:

Instructions:

No Calculators allowed.

Work consistently and do not waste time.

Show all working out.

Marks will be deducted for untidy work!

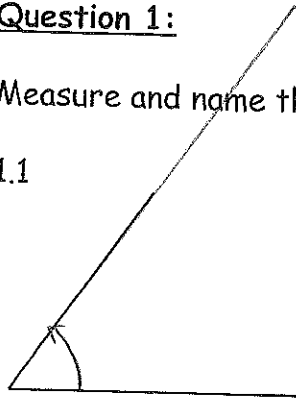
Use a blue pen only.

Question No	Total Mark	Learner's Mark
1	4	
2	4	
3	4	
4	6	
5	8	
6	14	
7	10	
Total	50	

Question 1:

Measure and name the following angles.

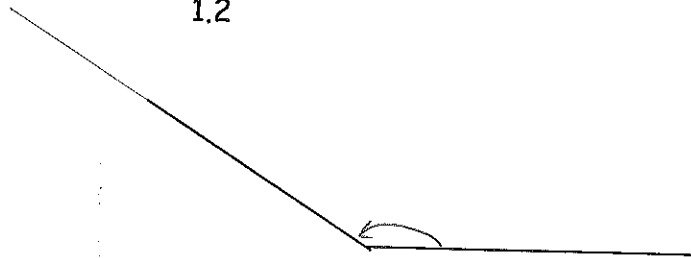
1.1



55° Acute ✓

(2)

1.2



147° obtuse ✓

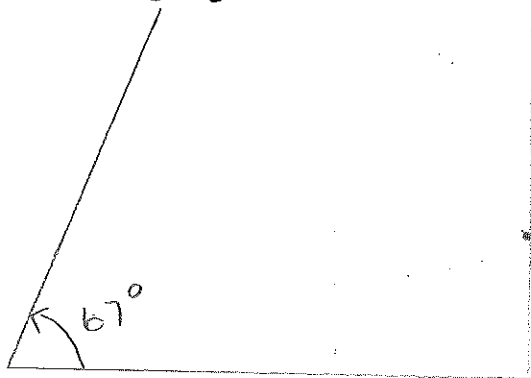
(2)

[4]

Question 2:

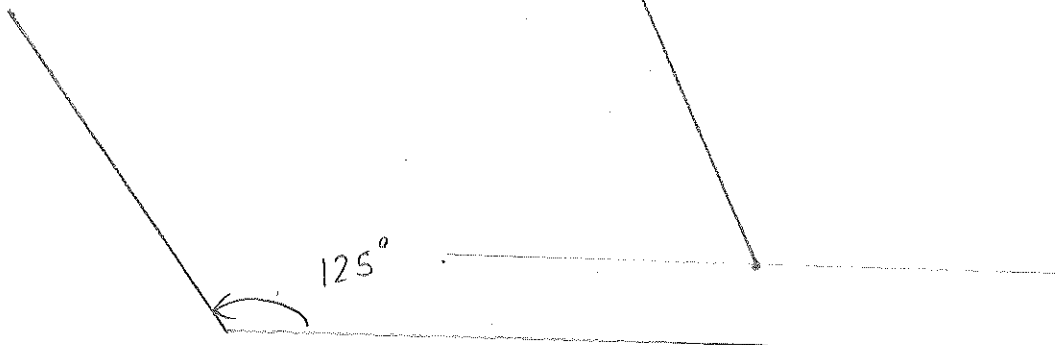
2.1 Draw the following angles:

2.1.1 67°



(2)

2.1.2 125°



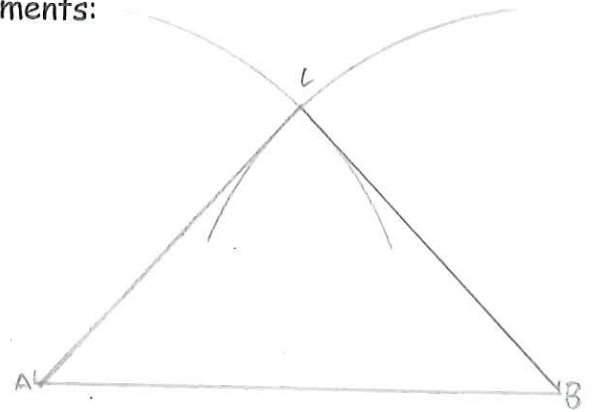
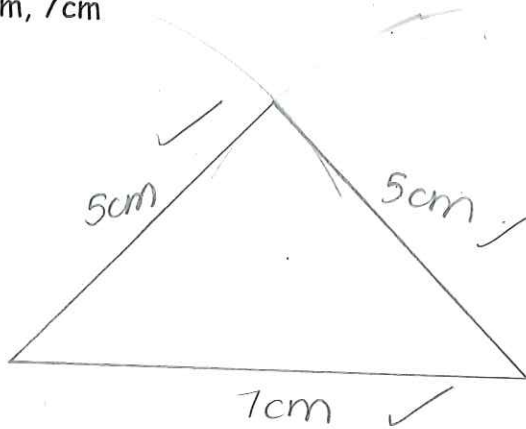
(2)

[4]

Question 3:

3.1 Draw a triangle with the following measurements:

5cm, 5cm, 7cm



(3)

3.2 Name the type of triangle you have drawn.

Isosceles / Right angled Triangle.

(1)

[4]

Question 4:

Simplify:

4.1 $234\,762 + 321\,923$

$$\begin{array}{r} 234\,762 \\ + 321\,923 \\ \hline 556\,685 \end{array}$$

(2)

4.2 $789\,654 - 113\,604$

$$\begin{array}{r} 789\,654 \\ - 113\,604 \\ \hline 676\,050 \end{array}$$

(2)

4.3 Calculate : 4786×23

$$\begin{array}{r}
 \overset{2}{4} \overset{2}{7} \overset{1}{8} \overset{1}{6} \\
 \times \quad \quad 23 \\
 \hline
 114358 \\
 95720 \\
 \hline
 110078 \\
 \hline
 \checkmark \quad \quad \checkmark
 \end{array}$$

(2)

[6]

Question 5:

5.1 List the factors of the following numbers

5.1.1 8: 1, 2, 4, 8 ✓ (1)

5.1.2 12: 1, 2, 3, 4, 6, 12 ✓ (1)

5.2 What is the HCF of 45 and 125?

45 - 1, (5), 9, 45 ✓
 125 - 1, (5), 25, 125 ✓
 5 ✓ (3)

5.3 Find the LCM of 14, 6 and 7.

14 : 14, 28, 42, 56
 6 : 6, 12, 18, 24, 30, 36, 42
 7 : 7, 14, 21, 28, 35, 42 } ✓
 LCM = 42 ✓ (3)

[8]

Question 6:

6.1 Write the following in exponential form.

6.1.1 $6 \times 6 \times 6 \times 7 \times 7 \times 7$ $6^3 \times 7^3$ (1)

6.1.2 $x \times x \times x \times y \times y$ $x^3 \times y^2$ (1)

6.2 Fill in $<$, $>$ or $=$

6.1.2 5^3 $\boxed{>}$ 8^2 (1)

6.1.3 9^2 $\boxed{>}$ 3^3 (1)

6.1.4 4^1 $\boxed{<}$ 2^4 (1)

6.3 Simplify the following:

6.3.1 $3^2 + 5^2 + \sqrt{144}$

$9 + 25 + 12$ ✓
 46 ✓
 (2)

6.3.2 $\sqrt[3]{119+6} \times \sqrt{9+16}$

$\sqrt[3]{125} \times \sqrt{25}$ ✓
 5×5
 25 ✓
 (2)

6.3.3 $\sqrt[3]{64} + (\sqrt[3]{6})^3 \times 5^3$

$4 + 6 \times 125$ ✓
 $4 + 750$
 754 ✓
 (2)

6.3.4 $\sqrt[3]{216} + 1^6 + 2^5 - \sqrt[3]{8}$

$2 \times 2 \times 2 \times 2 \times 2$
 $4 \times 8 \times 16 \times 32$

$6 + 1 + 32 - 2 \checkmark$

$37 \checkmark$

(3)

[14]

Question 7:

Solve:

7.1 Yusra borrows R20 000 for a new car from the bank and has to pay 15% interest over a period of 5 years. What is the total amount Yusra has to pay?

$SI = \frac{P \times r \times t}{100}$

$= \frac{20000 \times 15 \times 5}{100}$

$= 15000$

$TA = SI + \text{Principal}$

$= 15000 + 20000$

$= R35000$

(5)

7.2 Yusuf drives at a speed of 20km for a period of 2 hours. Calculate his distance.

$d = s \times t$

$= 20 \times 2 \checkmark$

$= 40km \checkmark$



(2)

7.3 Maleehah has pencil case that has a total of 30 pens of which 25 pens are colour and the rest are blue. Represent the blue pens to the colour pens as a ratio. Remember to simplify.

$$30 - 25 = 5 \checkmark \quad 5 : 25 \checkmark$$

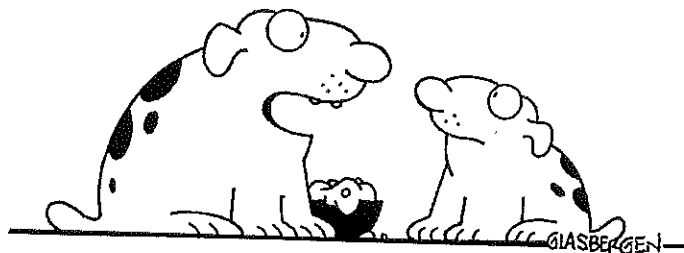
$$1 : 5 \checkmark$$

(3)

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[10]

DOG MATH



"If I have 3 bones and Mr. Jones takes away 2,
how many fingers will he have left?"

Best of luck!