**GAUTENG DEPARTMENT OF EDUCATION**

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MATHEMATICS

**GRADE 7**

**TERM 1: CONTROL TEST MEMORANDUM**

**2017**

**TOTAL MARKS: 50 DURATION: 1 HOUR**

|  |  |  |
| --- | --- | --- |
| Question No | Total Mark | Learner’s Mark |
| 1 | 4 |  |
| 2 | 4 |  |
| 3 | 4 |  |
| 4 | 6 |  |
| 5 | 8 |  |
| 6 | 14 |  |
| 7 | 10 |  |
| **Total** | **50** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME AND SURNAME OF LEARNER** |  | **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 1**

Measure and name the following angles.

1.1 1.2

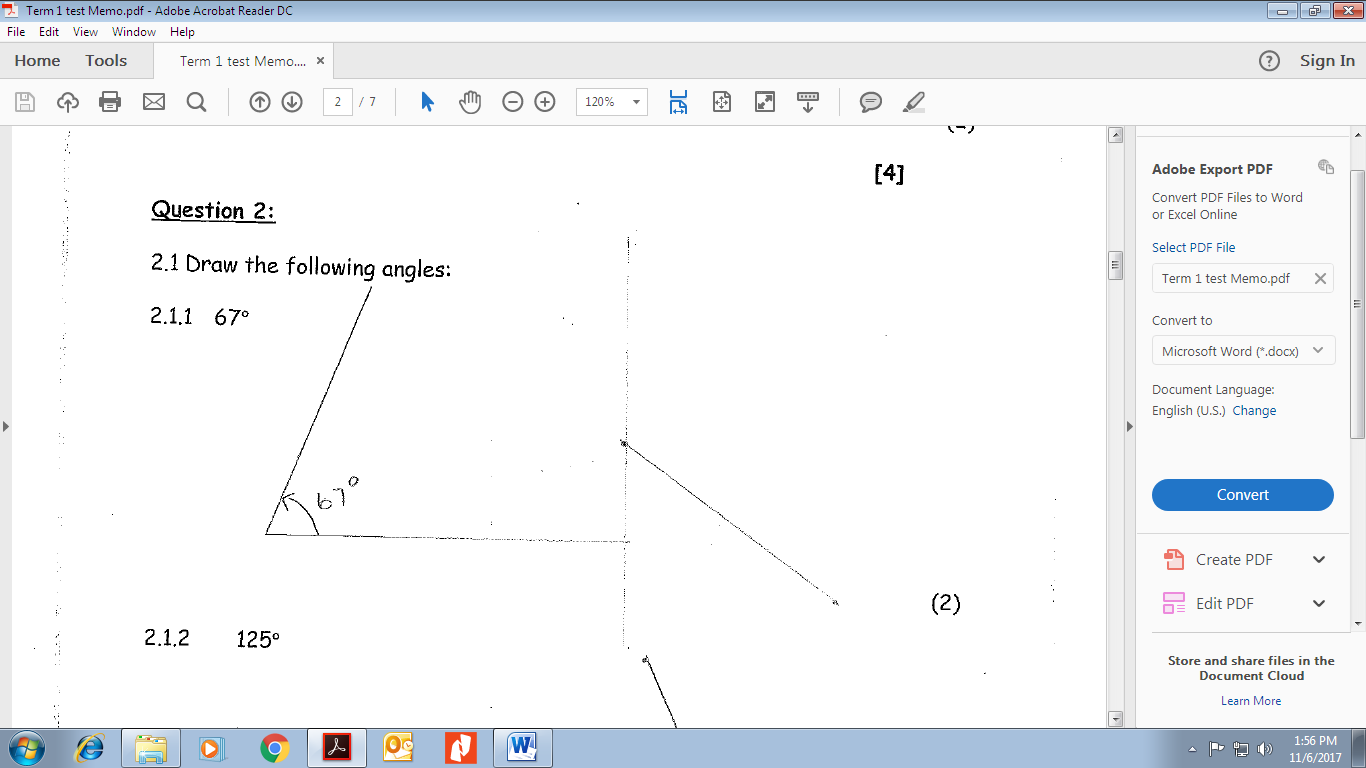
550 ( acute )(2) 1470 (obtuse) (2)

**[4]**

**Question 2**

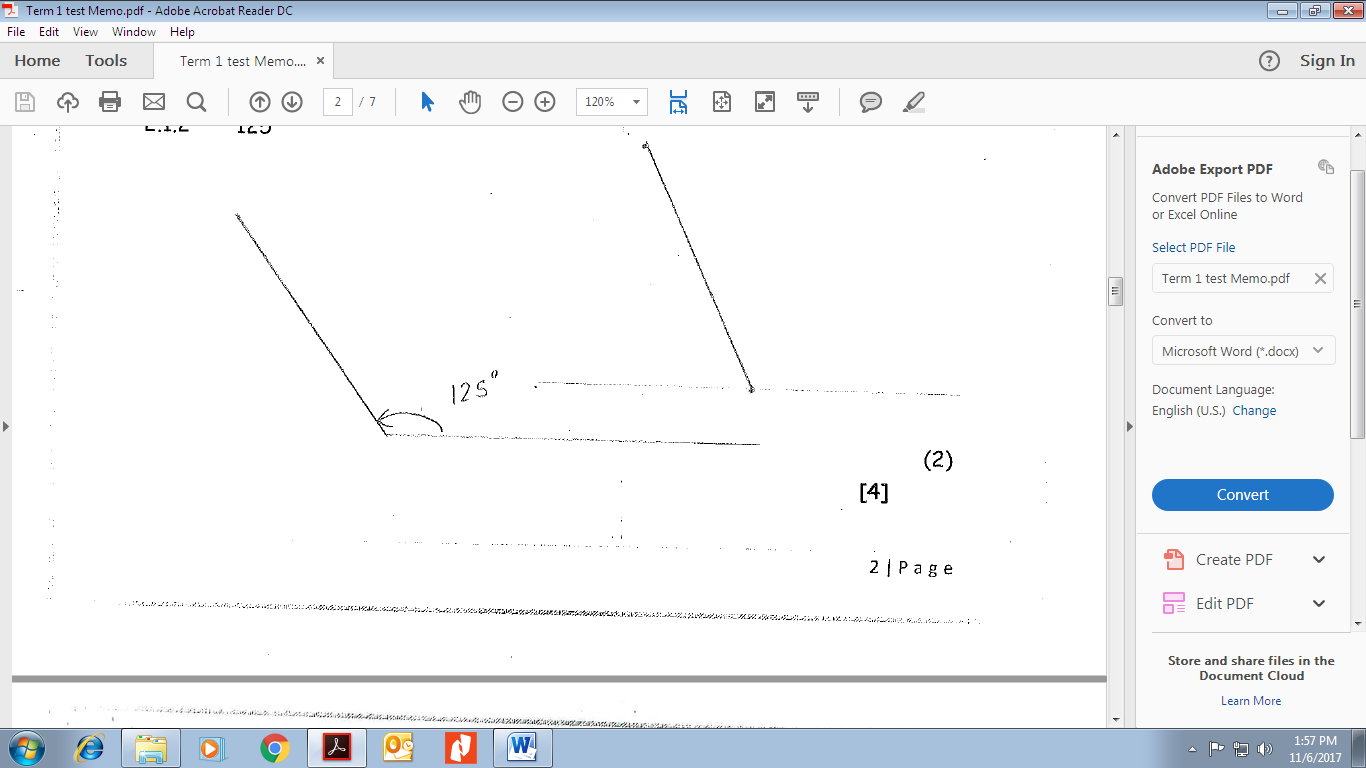
2.1 Draw the following angles:

2.1.1 67



(2)

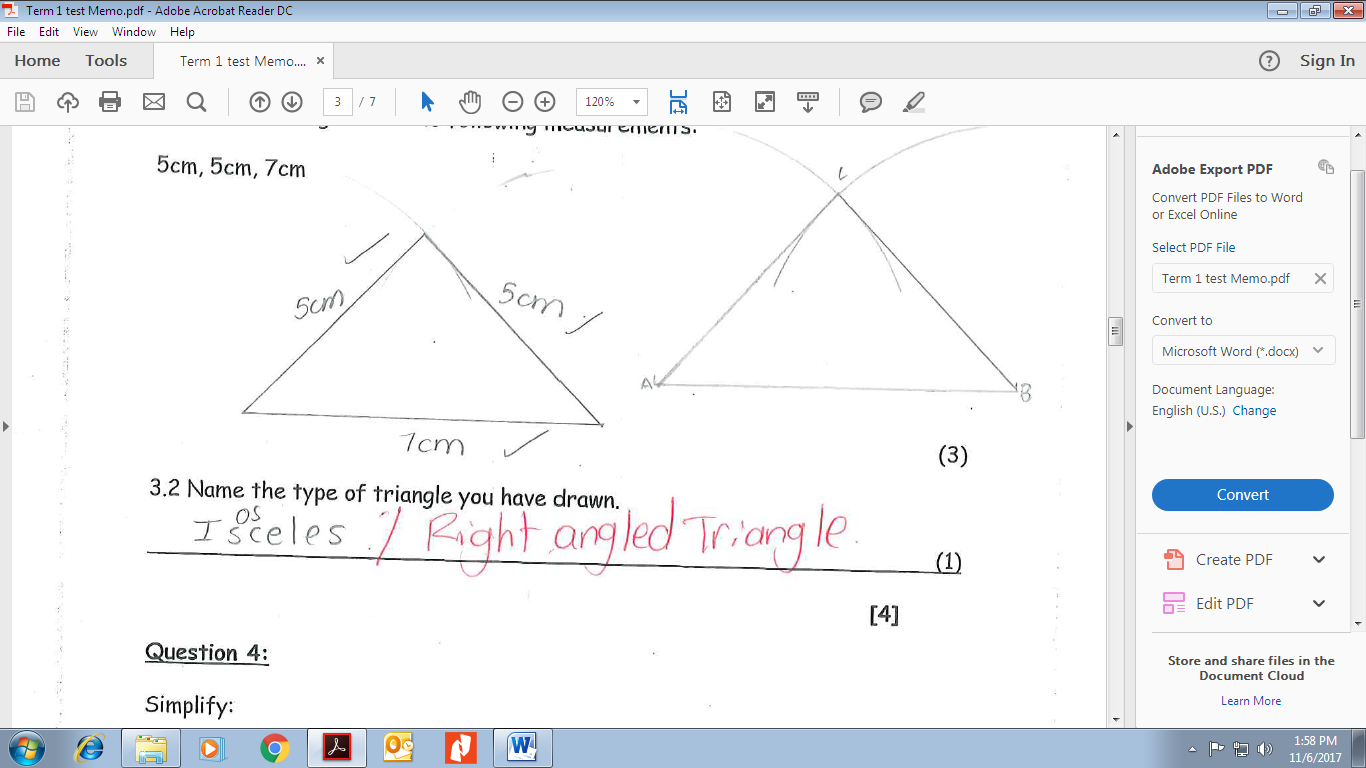
2.1.2 125

(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 or right angled triangle

(1)

**Question 4**

Simplify:

4.1

234 762

+ 321 923

556685

4.2

789 654

\_ 113604

676 050

4.3 Calculate :

4 786

X 23

1 4 3 5 8

9 5 7 2 0

1 1 0 0 7 8

**Question 5:**

5.1 List the factors of the following numbers

5.1.1 8: ( 1 , 2 , 4, 8 )

5.1.2 12: ( 1 , 2 , 3 , 4 , 6 , 12 )

5.2 What is the HCF of 45 and 125?

45 – ( 1 , 5 , 9 , 45 )

125 – ( 1 , 5 , 25 , 125 )

HCF = 5

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

**Question 6:**

6.1 Write the following in exponential form.

6.1.1 = 63 X 73 (1)

6.1.2 = x3y3 (1)

6.2 Fill in

6.1.2 53 82 (1)

6.1.3 92 33 (1)

6.1.4 41 24 (1)

6.3 Simplify the following:

6.3.1 32

9 + 25 + 12

= 46

6.3.2

x = 5 x 5 = 25

6.3.3 + ( )3  53

4 + 6 x 125

4 + 750

= 754

6.3.4

6 + 1 + 32 – 2

= 37

**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 Yusrahas to pay?

SI = P x r x t

100

= 20 000 x 15 x 5

100

= R 15 000

TOTAL AMOUNT = SI + PRINCIPAL

= 15000 + 20 000

= R 35 000

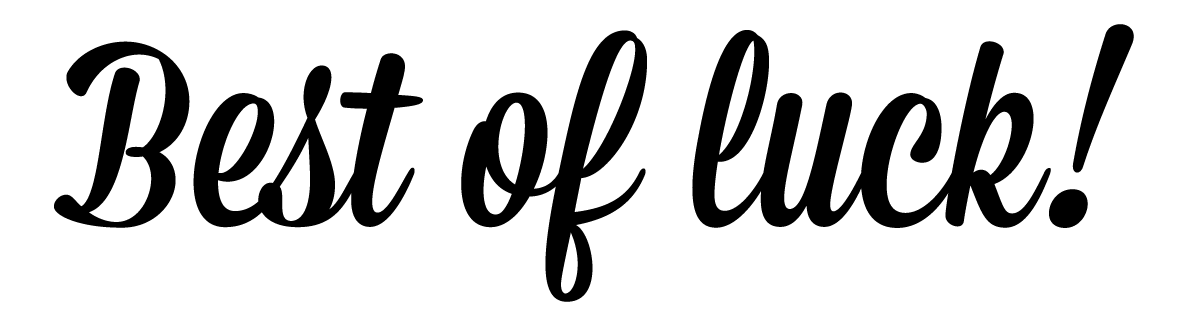
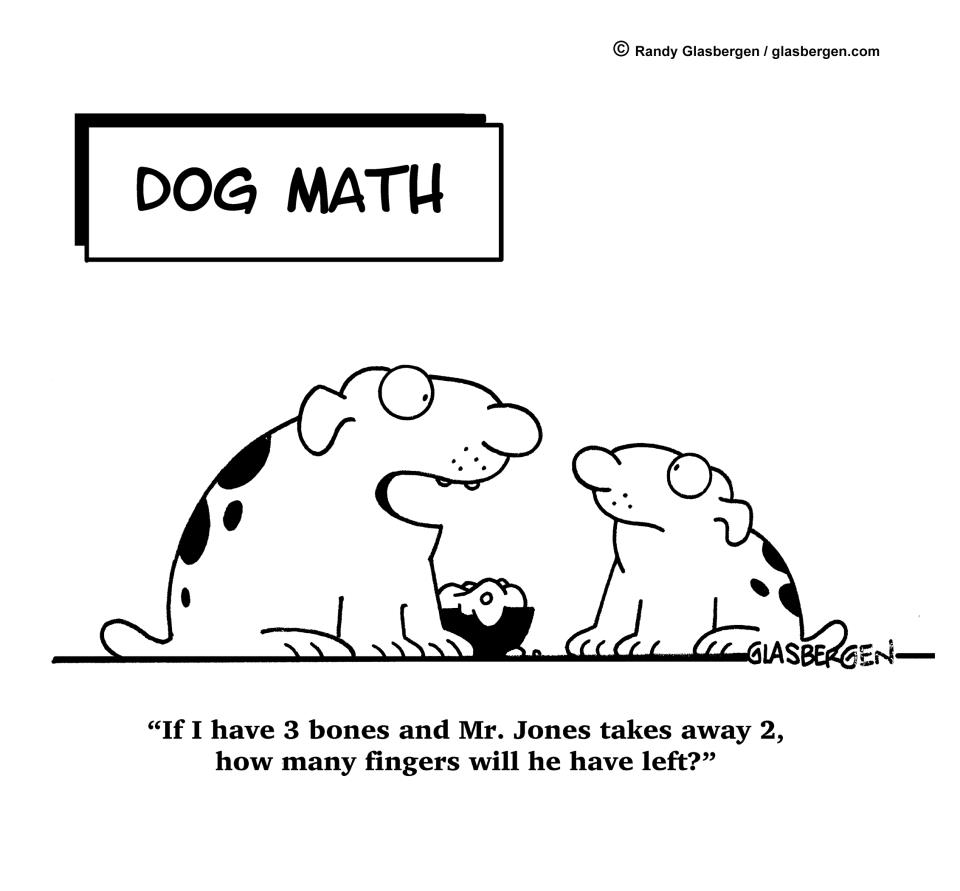
7.2 Yusuf drives at a speed of 20km for a period of 2 hours. Calculate his distance.

D = s x t

= 20 x 2

= 40 km

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.

[](https://www.google.co.za/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjRkJ6_s8TSAhViL8AKHXyFAxYQjRwIBw&url=https://clipartfest.com/categories/view/971e5eff02b799b7b9bd6c1e2f2b6bcd39c3a0c6/good-luck-clipart-black-and-white.html&bvm=bv.148747831,d.ZGg&psig=AFQjCNEne2FuGcom74y0ifPhy2NIjFx45A&ust=1488976393664377)[](http://www.google.co.za/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjVotbjssTSAhVFDMAKHe6rBu4QjRwIBw&url=http://charlethedog.com/2014/08/&bvm=bv.148747831,d.ZGg&psig=AFQjCNGzNCs-jjBcpKj5VgtN3nmYWfQE_Q&ust=1488976199083685)30 – 25 = 5

5 : 25

1 : 5 **√**