Carlingford High School



Mathematics

Year 7 Term 3 Examination 2020

Name:	ANSWER SHEET	Class: 7

Circle your teacher's name: Mrs Lobejko/Mrs Lego

Mrs Wilson/Mrs Young Mrs Blakeley/Mrs Sharma

Mr Gong/Mrs Virmani

Mr Cheng

Mrs Virmani

Mrs Tang

Mr Wilson

Time allowed: 50 minutes

- · Show all necessary working.
- Marks may be deducted for careless or untidy work.
- Complete the examination in blue or black pen.
- All questions are worth one mark unless stated otherwise.
- Calculators may be used.

Topic	Decimals	Algebra	Literacy	Problem Solving	Total
Total	/33	/30	/4	/3	/70

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	Section	A:	Decimals	(33)	marks)	ı

Mrs Tang

1. Four hundredths, 5 thousandths and three ten thousandths is equal to:

0.0453 0.05043 0.5506, 0.6055, 0.607

2. 0.837 256 rounded to the nearest

hundredth is:

0.84

C. 0.837

A. 0.83

A. 4.53

C. 0.005 43

0.8

3. Convert $\frac{3}{5}$ to a decimal.

A. 3.5

0.6

C. 5.3

9. Round off to 1 decimal place:

8. Write in ascending order:

0.6055, 0.5506, 0.607

5.28 ≈ **5.3** a)

367.84 ≈ **367.8** b)

19.96 ≈ 20.0 c)

[3]

4. The best estimate for 6.72×3.34 is:

A. 18

200

2000

10. The temperature rose from 17.7°C to 21.4°C. How much did it rise?

21.4-17.7 = 3.7

The temperature rose 3.7°C

5. How many decimal places are in the answer to 129.2×0.2 ?

A. 1

C. 3

11. Evaluate: $(3.6)^2 + \sqrt{1.44}$

= 14.16 or 354 or 14 5

6. Evaluate \$40 - 35c

12. Evaluate: $\frac{5.12+6.4}{25}$

= 0.4608 or 288

7. Find the product of 5.24 and 26

5.24 x

13. Give an EXACT answer to:

 $0.56 \div 0.3$ = 1.86

or 13 or 28

Mr Gong

- 14. Copy and complete by placing <, > or = in the space:
- a) 0.56 <u>4</u>0.6
- b) $\frac{19}{20}$ = 0.95
- c) 7 7 6.95

18. Jack ran three 100m sprints. His times were 11.52s, 11.03s and 11.8s. Find his average time

- = <u>34.35</u> 3
- = 11.45

= 1.1

[3]

[2]

The average is 11.45s

- 15. Convert these fractions to decimals:
- a) $\frac{9}{10} = 0.9$
- b) $3\frac{3}{4} = 3.75$

c) $\frac{5}{6} = 0.8\overline{3}$

19. Daniel buys 2 pens which are \$1.95 each. How much change does he receive from \$5?

The change is \$1.10

16. A chemistry experiment requires 0.5g of one chemical and 0.075g of another chemical. Find the total mass of chemicals

0.575

needed for the experiment.

The total mass is 0.575g

20. A PE teacher buys 20 basketball jerseys worth \$56.50 each. Find the total cost of the jerseys.

\$56.50 × 20

The total cost is \$1130

17. Jo has travelled 15.2 km of a 25km journey.
How far does she have left to travel?

25 15·2 9.9

Jo has 9.8 km to 90

21. A 1.2km taxi ride costs \$11.40. Find the price per kilometre.

\$11.40 - 1.2

Price 15 \$9.50/km

[2]

[2]

[2]

Section B: Algebra (30 marks)

Mrs Virmani

1. Simplify a + a + a + b + b

A.
$$a^3 + b^2$$

(C.)
$$3a + 2b$$

4. If N is the number write an expression for:

b) The number decreased by 7.

c) Half the product of the number and 5.

[3]

2. Simplify $7 + 5 \times p$

$$(B.)$$
 7 + 5p

C.
$$7 + \frac{5}{p}$$

5. Write in expanded form:

a)
$$7pq = 7 \times P \times 9$$

b)
$$4k^3 = 4 \times k \times k \times R$$

[2]

3. Simplify:

a)
$$m + m + m + m = 4m$$

b)
$$8y - y = 74$$

c)
$$6 \times a \times 2 = 12q$$

d)
$$8d \times 2d = 16d^2$$

e)
$$5y + 3 \times 4y = 5y + 12y$$

= 17y

6. Simplify

a)
$$4x - 6y - 7y + 10x$$

$$= 14x - 13y$$

b)
$$\frac{8m^2n}{10mn}$$

$$= \frac{4m}{5}$$

[5]

4

7. Expand and simplify:

a)
$$6(y+2) = 6y+12$$

b)
$$4(2t-5) = 8t-20$$

c)
$$5p - (2 + 3p) = 5p - 2 - 3p$$

= $2p - 2$

Mr Cheng 10. If m = 2n - 7 find m when:

a)
$$n = 5$$
 $M = 2 \times 5 - 7$ $M = 3$

b)
$$n = 1$$
 $M = 2 \times 1 - 7$ $M = -6$

c)
$$n = -4$$
 $m = 2 \times (-4) - 7$
 $m = -15$

8. If a = 3, b = 5 and c = -2 find:

a)
$$4b = 4 \times 3$$

= 12

b)
$$2b-a = 2 \times 5 - 3$$

= 7

c)
$$c^2 = (-2)^2$$

= 4

Literacy (4 marks)

[4]

1. Circle the "like terms".

$$\overbrace{4s^2t,} -5st, \quad 2t^2s, \quad \boxed{-6ts^2}$$

[3]

2. Consider $5y^3$, write down the:

- b) coefficient 5
- c) base Ч

9. If m = 0.2, n = 5 and p = -1 find:

a)
$$m(n-p) = 0.2(5--1)$$

= 0.2 x 6
= 1.2

b)
$$\frac{m^2 + 2p}{n} = \frac{(0.2)^2 + 2(-1)}{5}$$
$$= \frac{0.04 - 2}{5}$$
$$= -0.392$$

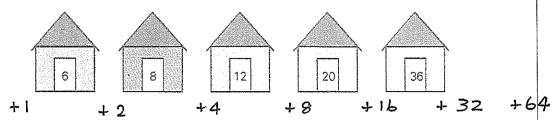
Extra Working Space

a) or is or so

Problem Solving: (3 marks)

1.

The illustration below shows a row of houses with the house number shown on the door.



a) How many houses would there be before number 6?

one

b) Find the number of the house two doors up from number 36.

2.

If the pattern in the following 5 by 5 square is completed, what is the sum of all the numbers?

2	3	5	8	13
4	7		18	29
6	10	16	26	42
10	17	-27	44	71
16	27	43	70	113