

GENERAL MATHEMATICS EXERCISES FOR YEAR 3 STUDENTS

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Tolentino Tuition, Year 3 Mathematics

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EXERCISE 1

This exercise assesses:

- Number representation
- Identifying place values

1. Please represent the following as numbers
 - A. Thirty-three
 - B. Fifty-six
 - C. Seventy
 - D. Three-hundred and forty-six
 - E. Six-thousand seven-hundred and eleven
 - F. **Challenge**
Two-hundred and fifty-seven-thousand one-hundred and thirteen
2. Please represent the following numbers in worded form
 - A. 21
 - B. 458
 - C. 9999
 - D. 12,345
 - E. **Challenge**
892,402
3. What is the *place value* of the number 5 in each of the following numbers?
 - A. 51
 - B. 5
 - C. 156
 - D. 6578
 - E. 5993
 - F. 52,784
 - G. 923,005
 - H. **Challenge**
5,320,III

EXERCISE 2

This exercise assesses:

- Addition of numbers between 1 and 10,000
- Subtraction of numbers between 1 and 10,000

1. Please evaluate the following

- A. $12 + 15$
- B. $27 + 31$
- C. $45 + 88$
- D. $132 + 449$
- E. $782 + 555$
- F. **Challenge**
 $1,451 + 3,912$

2. Please evaluate the following

- A. $13 - 11$
- B. $33 - 22$
- C. $96 - 67$
- D. $114 - 108$
- E. $732 - 495$
- F. $3,014 - 2575$
- G. **Challenge**
 $62 - 63$

3. Benson weighs 61 kilograms, and Lara weighs 53 kilograms. How much do Benson and Lara weigh altogether?

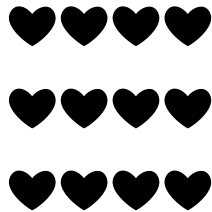
4. A French bakery sells a pack of croissants for \$36, whilst the local supermarket sells a pack of croissants for \$19. What is the difference between the price of a pack of croissants at the bakery and the price of a pack of croissants at the local supermarket?

EXERCISE 3

This exercise assesses:

- Multiplication of numbers between 1 and 100
- Division of numbers between 1 and 100

1. Please observe the following diagram



- A. How many rows of hearts are there?
- B. How many hearts are in each row?
- C. How many hearts are there altogether?
- D. What is 4×3 ?
- E. What is 3×4 ?

2. Please observe the following diagram



- A. How many lots of 7 stars are there?
- B. How many lots of 5 stars are there?
- C. How many stars are there altogether?
- D. **Challenge**
 - i. What is $35 \div 7$?
 - ii. What is $35 \div 5$?
 - iii. What is 5×7 ?
 - iv. What is 7×5 ?

3. Please evaluate the following

- A. 4×2
- B. 3×6
- C. 2×15
- D. 1×100
- E. **Challenge**
 3×21

4. Please evaluate the following

- A. $4 \div 2$
- B. $6 \div 3$
- C. $30 \div 2$
- D. $30 \div 15$
- E. $100 \div 1$
- F. **Challenge**
 $42 \div 7$

5. Humphrey has \$8 in his wallet. In Michel's wallet, Michel has four times as much money as Humphrey has in his wallet. How much money does Michel have in his wallet?

6. Nicola hangs up all of her children's socks on her washing line – there are twelve socks in total. If each of Nicola's children owns four socks, how many children does Nicola have?



EXERCISE 4

This exercise assesses:

- Representing fractions
- Ordering fractions by size

1. Please represent the following in *fraction*-form

- A. One half
- B. Two thirds
- C. Four quarters
- D. Six eighths
- E. **Challenge**
Thirty-three elevenths

2. Please represent the following fractions in worded form

- A. $\frac{1}{2}$ B. $\frac{2}{3}$ C. $\frac{4}{9}$ D. $\frac{7}{8}$ E. $\frac{10}{12}$ F. **Challenge** $\frac{21}{30}$

3. Please arrange the following fractions in ascending order

$$\frac{5}{8}, \frac{0}{8}, \frac{12}{8}, \frac{3}{8}, \frac{8}{8}, \frac{1}{8}, \frac{7}{8}$$

4. Please arrange the following fractions in descending order

$$\frac{9}{9}, \frac{10}{9}, \frac{2}{9}, \frac{1}{9}, \frac{8}{9}, \frac{0}{9}, \frac{20}{9}$$

5. **Challenge**

Tim's cake was cut into ten slices. Tim's mother ate two slices, and Tim ate three slices. What *fraction* of the ten slices of Tim's cake did Tim and his mother eat altogether?

EXERCISE 5

This exercise assesses:

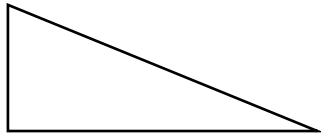
- Naming and describing 2D shapes
- Naming and describing 3D shapes

I. Please name the following 2-dimensional shapes

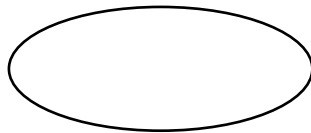
A.



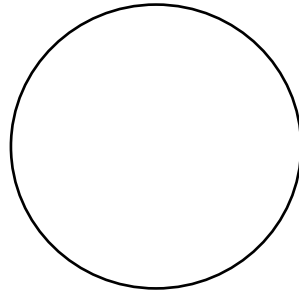
B.



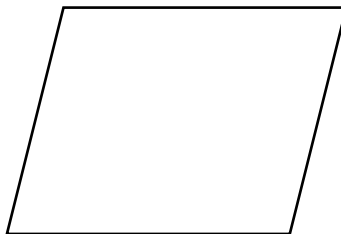
C.



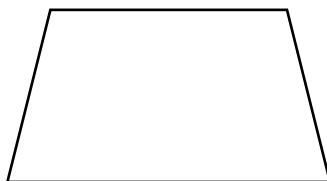
D.



E.



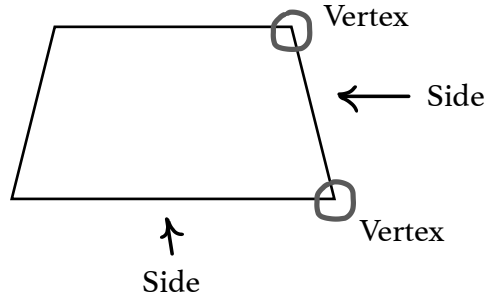
F.



2. Please state the number of sides and vertices for each of the following 2-dimensional shapes

Hint

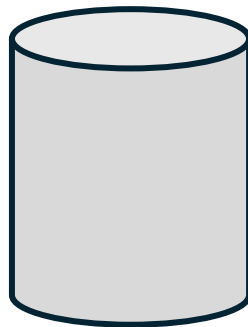
A vertex on a 2D shape is a point where two of its sides meet.



<i>Shape</i>	<i>Number of sides?</i>	<i>Number of vertices?</i>
Square		
Rectangle		
Triangle		
Hexagon		
Octagon		
Pentagon		
Trapezium		
Parallelogram		
<i>Challenge</i>		
Nonagon		
Decagon		
Circle		
Heptagon		

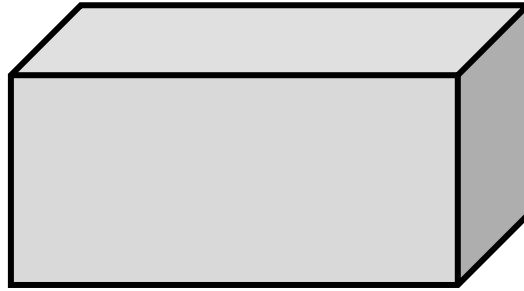
3. Please name the following three-dimensional shapes

A.

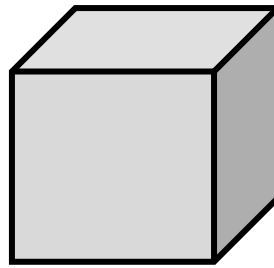


3. Please name the following three-dimensional shapes

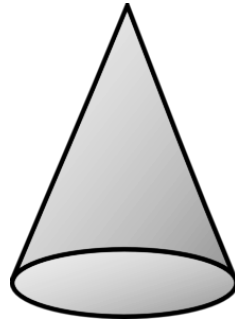
B.



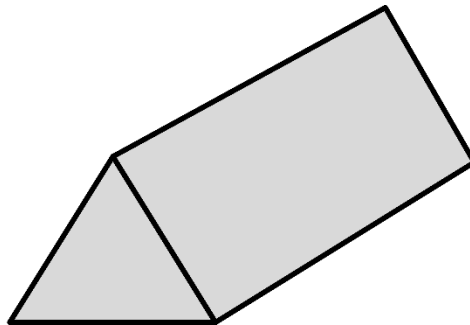
C.



D.



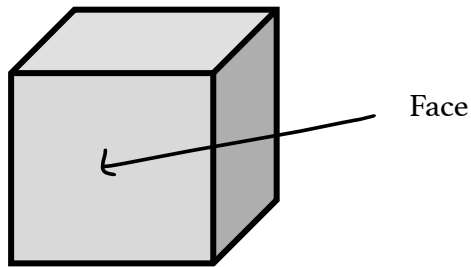
E.



4. Please state the number of faces that each of the following three-dimensional shapes has

Hint

A face is a flat or curved surface on a three-dimensional shape.



<i>Three dimensional shape</i>	<i>Number of faces?</i>
Cube	
Rectangular prism	
Triangular prism	
Cone	
Cylinder	

EXERCISE 5

This exercise assesses:

- Conversion between metric lengths (mm, cm, m, km)
- Conversion between metric weights (mg, g, kg)

1. 10 millimetres (mm) = 1 centimetre (cm)
100 centimetres (cm) = 1 metre (m)
1000 metres (m) = 1 kilometre (km)

Please evaluate the following

- A. 20 mm = ? cm
- B. 4 cm = ? mm
- C. 300cm = ? m
- D. 5 m = ? cm
- E. 6000m = ? km
- F. 4km = ? m
- G. **Challenge**
1500m = ? km

2. 1000 milligrams (mg) = 1 gram (g)
1000 grams (g) = 1 kilogram (kg)

Please evaluate the following

- A. 2000 mg = ? g
- B. 3g = ? mg
- C. 7000g = ? kg
- D. 12kg = ? g
- E. **Challenge**
4500 mg = ? g