Year 7 MATHEMATICS 2024

Semester 1 Test - PRACTICE TEST

- **Representing Numbers**
- **Additive Thinking**

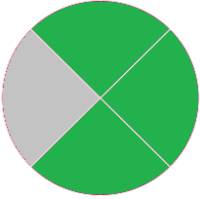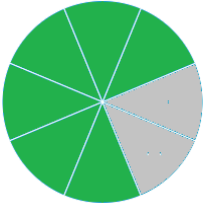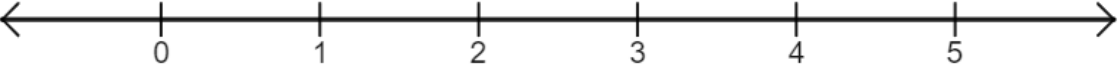**Time allowed: one period**

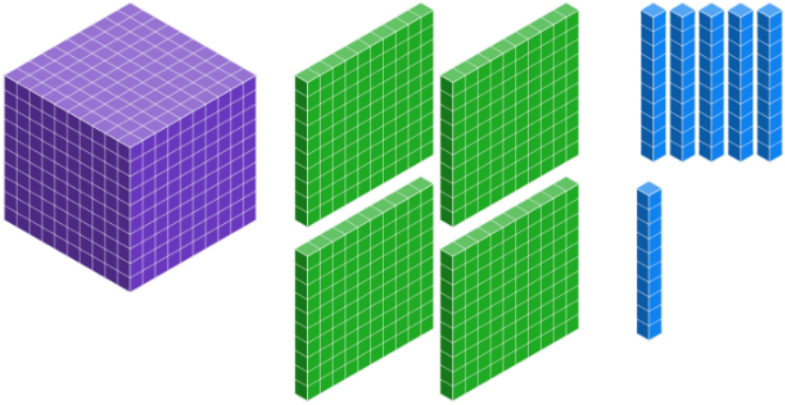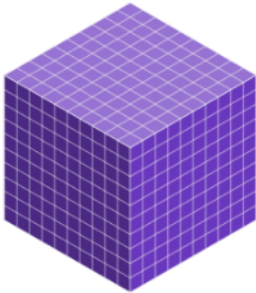| Outcome/s	mark
MA4-INT-C-01 compares, orders and calculates with integers to solve problems	/17
MA4-FRC-C-01 represents and operates with fractions, decimals and percentages to solve problems	/13
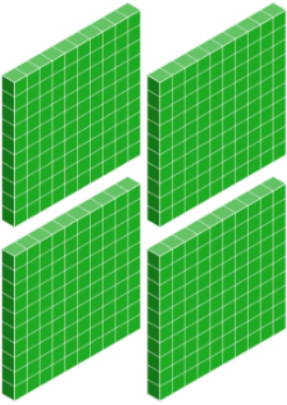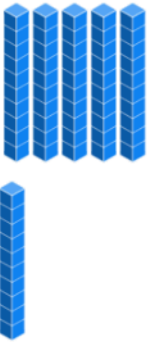
Name: _____

Teacher: _____

Class: _____

Part 1 – Representing Number

Q		Marks
Q1	Circle any of the following diagrams that represent $\frac{3}{4}$? a. b. c. d.	2 marks for all correct answers 1 mark for some correct answers
Q2	Consider the number line below. Plot the number 2.4 on the number line.	1 mark

Q3	Round 1.46 to the nearest tenth. Explain your solution.	2 marks 1 mark for answer 1 mark for explanation
	1 ones 4 tenths 6 hundredths	
Q4	Draw counters to represent the number -4 An example of a negative counter could be ⊖	1 mark
Q5	What integer is represented by the image below? Explain your answer. 	1		1	−1
1		1	−1
		1	−1
		1	−1
		1	−1		1 mark

Q6 — 5 marks

1							

$\frac{1}{2}$ · $\frac{1}{2}$

$\frac{1}{3}$ · $\frac{1}{3}$ · $\frac{1}{3}$

$\frac{1}{4}$ · $\frac{1}{4}$ · $\frac{1}{4}$ · $\frac{1}{4}$

$\frac{1}{5}$ · $\frac{1}{5}$ · $\frac{1}{5}$ · $\frac{1}{5}$ · $\frac{1}{5}$

$\frac{1}{6}$ · $\frac{1}{6}$ · $\frac{1}{6}$ · $\frac{1}{6}$ · $\frac{1}{6}$ · $\frac{1}{6}$

$\frac{1}{7}$ · $\frac{1}{7}$ · $\frac{1}{7}$ · $\frac{1}{7}$ · $\frac{1}{7}$ · $\frac{1}{7}$ · $\frac{1}{7}$

$\frac{1}{8}$ · $\frac{1}{8}$ · $\frac{1}{8}$ · $\frac{1}{8}$ · $\frac{1}{8}$ · $\frac{1}{8}$ · $\frac{1}{8}$ · $\frac{1}{8}$
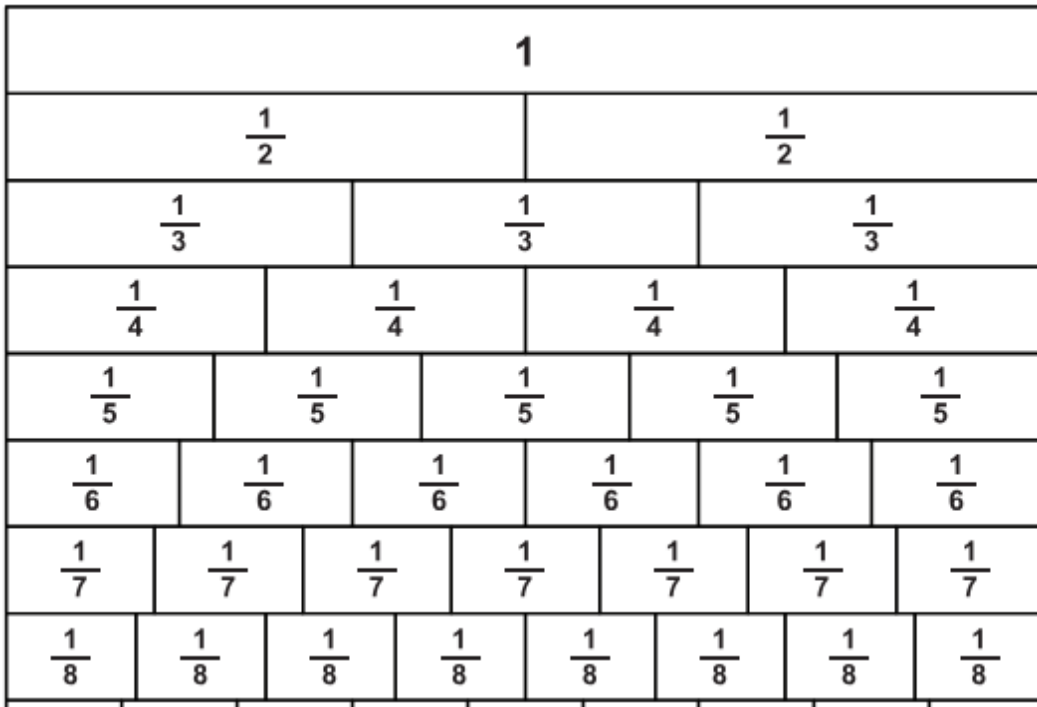
a.   Using the fraction wall, or otherwise, list 2 equivalent fractions of $\frac{1}{4}$.

(2 marks fully correct, 1 mark partially correct)

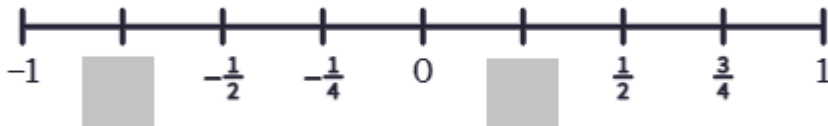b.   Using the fraction wall, or otherwise, simplify $\frac{2}{6}$.

(1 mark)

c.   Simplify $\frac{15}{20}$

(2 marks fully simplified, 1 mark partial)
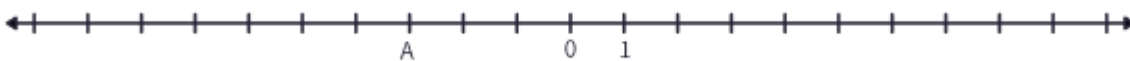
Q7 — 2 marks fully correct, 1 mark partially correct

Fill in the in the gaps on the number line below:

-1 ☐ $-\frac{1}{2}$ $-\frac{1}{4}$ 0 ☐ $\frac{1}{2}$ $\frac{3}{4}$ 1

Q8 — 1 mark
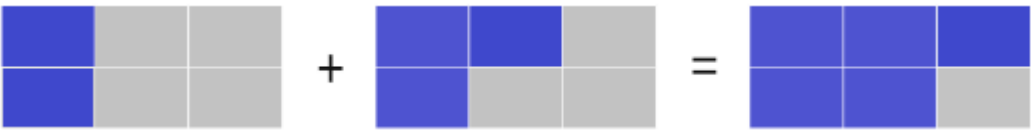
What is the value of A on the following number line?

A   0   1

Q9	Use < and > to make the following statements true	
	(a) 5 __ 3	1 mark
	(b) 2 __ -3	1 mark

Part 2 – Additive Thinking

Question	Fractions, Decimals & Percentages	Marks
Q1	 Write the number sentence _____	1 mark
Q2	Evaluate the following and simplify your answer. $\frac{1}{4} + \frac{2}{5}$ $\frac{3}{4} - \frac{1}{3}$ 1.45 + 2.52 1.45 - 0.32	8 marks 2 marks each for correct answer 1 mark each for partial attempt
Q3	Use either a number line or draw counters to solve: a) -3 + 3 b) -3 + 4 c) 4 + -3	4 marks

d) -2 - -1