Grade 5 - Mathematics
Self Practice Worksheet (To be done on rough register / booklet)

Q1:

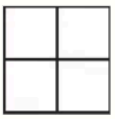
Recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3}).

Square Numbers

The product of a number multiplied by itself.

Can be illustrated as a square, e.g

2^2 = 2 squared = 2 × 2 = 4

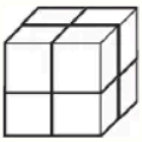


Cube Numbers

The product of multiplying a digit by itself three times.

Can be illustrated as a cube, e.g.

2^3 = 2 cubed = 2 × 2 × 2 = 8



A. Complete the table.

1^2	1 × 1	1
2^2		4
3^2	3 × 3	
	4 × 4	16
5^2		
		36
	7 × 7	
8^2		
10^2		100

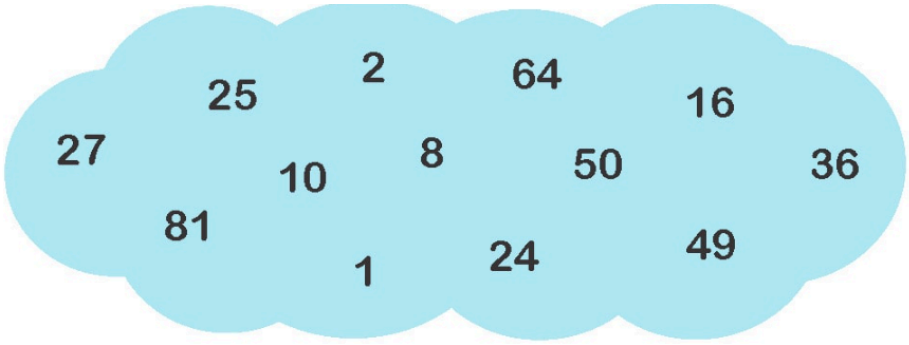
B. Complete the table.

1^3	1 × 1 × 1	1
2^3	2 × 2 × 2	
3^3		27
	4 × 4 × 4	64
5^3	5 × 5 × 5	
6^3	6 × 6× 6	
		343
8^3		512
	9 × 9 × 9	729
10^3		

C. Calculate the missing numbers.

a) $7^2 + 4^3$ =	b) $8^2 + 10^2$ =	c) $5^3 - 5^2$ =
d) 5^2 + _____ = 89	e) _____ - 8^2 = 17	f) $3^2 \times 2^3$ =
g) 3^2 + _____ = 5^2	h) $6^3 \div 2^2$ =	i) 13^2 =
j) $10^3 - 2^2$ =	k) 100^2 =	l) _____^{2} = 144

Q2: Use the numbers in the cloud to answer:



1) Write down a square number between 30 and 40 _____

2) Write down a cube number between 10 and 30 _____

3) Write down the numbers that are both square numbers and cube numbers _____

4) Write down a square number which is the sum of two other square numbers _____

Q3: Solve

+3 - 4 =	-2 + 5 =	-3 - 6 =	+10 +3 =
-2 - 8 =	-9 + 3 =	+5 + 7 =	+1 - 9 =
3 + 8 =	12 - 9 =	2 - 5 =	-5 - 6 =
11 - 15 =	-11 - 15 =	11 + 15 =	-11 + 15 =
4 + 6 =	-4 + 9 =	12-13 =	-2 - 3 =
+7 - 8 =	10 + 5 =	7 - 9 =	32 - 41 =
-7 - 3 =	+3 - 6 =	11 + 18 =	-5 + 12 =
6 - 3 =	-6 + 3 =	-6 - 3 =	6 + 3 =

Q4: Solve the following word problems

Bill paid $22.44 for four gallons of gas. How much was each gallon of gas?

Brother has $945.82 in his checking account. How much does he have in her account after he makes a deposit of $75.75 and a withdrawal of $265.40?

Angela bought 12 cups, 6 plates, and 6 bowls at the store. The cups cost $2.25 apiece. The plates cost $5.75 apiece. The bowls cost $3.00 apiece. How much does Angela have to pay for all of them?

Q5: Solve the following. Do not forget to simplify (if possible) and convert improper fractions to mixed numbers.

1) $\frac{1}{15} + \frac{2}{5}$

2) $\frac{2}{3} - \frac{1}{21}$

3) $\frac{1}{4} + \frac{5}{12}$

4) $\frac{1}{2} - \frac{7}{16}$

5) $\frac{3}{5} + \frac{1}{2}$

6) $\frac{1}{6} + \frac{9}{10}$

7) $\frac{3}{7} - \frac{2}{5}$

8) $\frac{7}{11} + \frac{2}{3}$

9) $\frac{4}{5} - \frac{5}{8}$

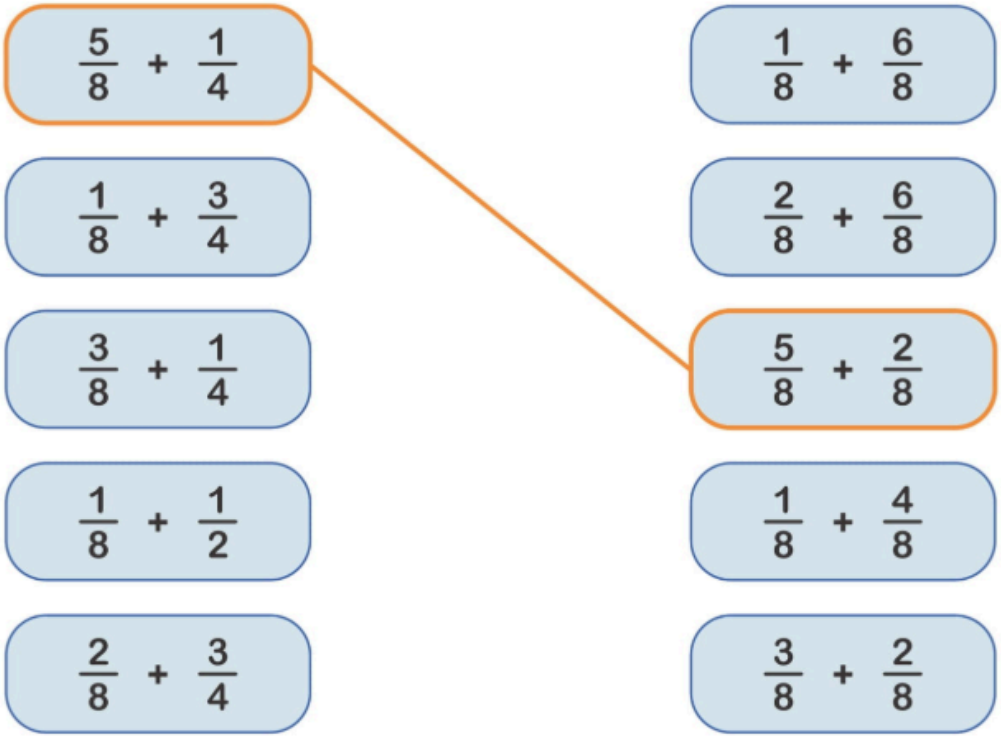
10) $\frac{3}{10} + \frac{6}{7}$

11) $\frac{7}{9} + \frac{3}{8}$

12) $\frac{3}{4} - \frac{6}{15}$

Q6: Do as directed

Section A *Match the equivalent calculations. One has been matched up for you.*



Section B *Match the equivalent calculations.*

