Department of Mathematics
Fourth grade
Unit 12 + Unit 13

Name _____   **Date** _____

1. Cross through the number of faces on the grid for each shape below.

4	3	6	2
7	8	5	10

Cube [6]   **Tetrahedron** [4]   **Triangular prism** [5]

Hexagon-based pyramid [7]   **Octagonal prism** [10]

Write the three numbers left in the grid in these squares and find their total.

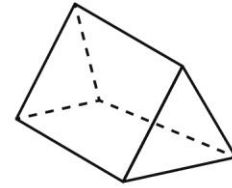[3] + [8] + [2] = [13]

1/9
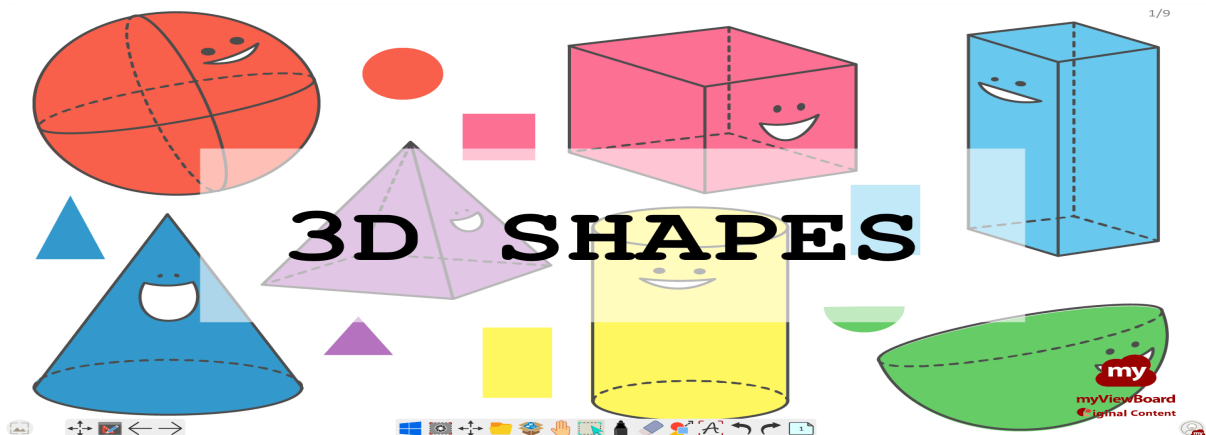
3D SHAPES

2. Write the correct 3D shape for each description .
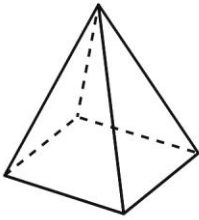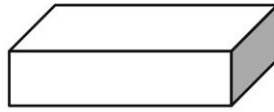
square-based pyramid   cuboid   triangular prism

a. This 3D shape has got five faces.
It has got nine edges.
It has got six vertices.

It is a ___triangular prism_____

b. This 3D shape has got five faces.
It has got eight edges.
It has got five vertices.

It is a _____square based pyramid_____

c. This 3D shape has got six faces.
It has got twelve edges.
It has got eight vertices.

It is a ___cuboid_____
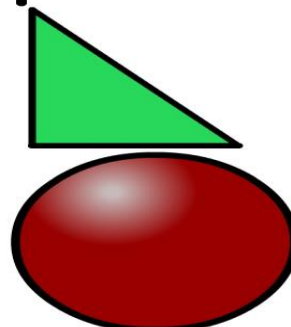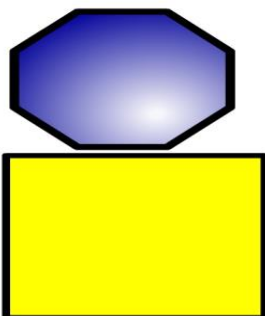
d. Choose a new shape. Make your own clues. (different answers)

This 3D shape has got ____7___ faces.
It has got ____15_____ edges.
It has got ____10_____ vertices.

It is a ___pentagonal prism_____

2 - D Shapes

You can use the number cards to make addition calculations.

| 1 | 2 | 3 | 4 | 5 | 6 |

	1	2	3
+	6	5	4
	7	7	7

Can you find arrangements to make these totals?
One of them is impossible.

+			
	7	0	5

	2	1	4
+	6	3	5
	8	4	9

	1	5	4
+	6	3	2
	7	8	6
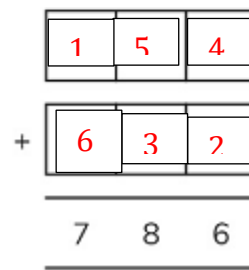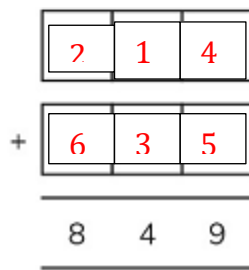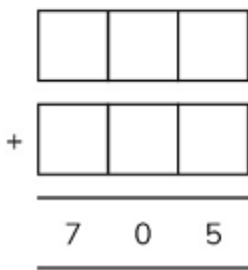
3. Calculate .

$\frac{2}{5} + \frac{4}{5} = \frac{6}{5}$

$\frac{7}{8} - \frac{1}{8} = \frac{6}{8}$

$\frac{3}{6} + \frac{5}{6} = \frac{8}{6}$

$\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$
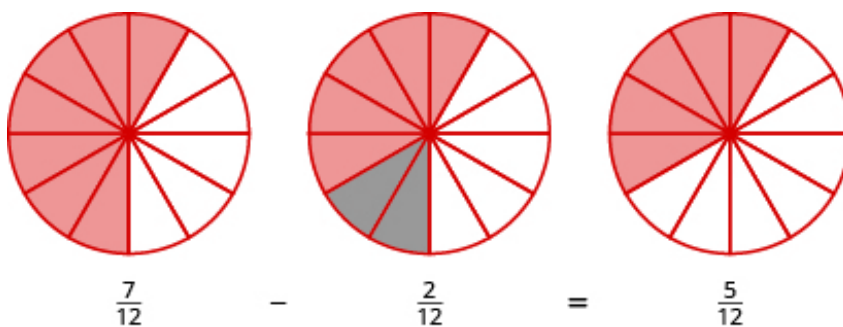
$\frac{5}{8} + \frac{7}{8} = \frac{12}{8}$

$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$

$\frac{5}{6} + \frac{4}{6} = \frac{9}{6}$

$\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$

$\frac{3}{5} + \frac{4}{5} = \frac{7}{5}$

$\frac{7}{12}$ — $\frac{2}{12}$ = $\frac{5}{12}$

3

	Proper fraction	Improper fraction
$\frac{12}{9}$		✓
$\frac{1}{2}$	✓	
$\frac{5}{4}$		✓

	Proper fraction	Improper fraction
$\frac{9}{10}$	✓	
$\frac{5}{3}$		✓
$\frac{6}{6}$		✓

4. Look and tick (✓).

	Proper fraction	Improper fraction
$\frac{3}{5}$	✓	
$\frac{9}{7}$		✓
$\frac{1}{8}$	✓	

5. Write the proper and improper fractions. Say them out loud.

a   one-half $\frac{1}{2}$

d. nine-tenths $\frac{9}{10}$

e. six-sixths $\frac{6}{6}$

f. one-eighth $\frac{1}{8}$

g. twelve-ninths $\frac{12}{9}$

h. three-fifths $\frac{3}{6}$

i. five-quarters $\frac{5}{4}$

j. five-thirds $\frac{5}{3}$

k. nine-sevenths $\frac{9}{7}$

7. What is the total of 482 and 361? _____482 + 361 = 843_____

8. What is the difference between 424 and 282?_____424- 282= 142_____

9. Subtract 389 from 521.___ 521 – 389 = 132_____

10. The Tigers played the Bears at a rugby match.

There were 525 people at the match.

228 people supported the Tigers.

How many people supported the Bears? _525 - 228 = 297 **people**_____

11. The Khan family drove a total of 462 km, starting on Friday and ending on Sunday.

They drove 128 km on Friday and 215 km on Saturday.

How many kilometers did they drive on Sunday?

$462 - (128 + 215) = 119$ Km_____

12. Amy showed this number on her calculator.

$$542$$

She did a calculation and the calculator showed this number.

$$592$$

Tick (✓) the calculation that Amy did.

add 5 ☐

add 50 ✓

subtract 5 ☐

subtract 50 ☐

13. Write the missing digits.

| 3 | 4 | 7 | + | 5 | 7 | = | 4 | 0 | 2 |

14. Complete these calculations.

b $\dfrac{1}{8} + \dfrac{7}{8} = \dfrac{8}{8}$
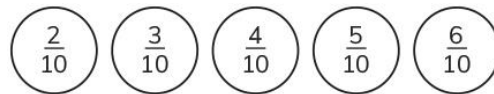 c $\dfrac{5}{9} + \dfrac{6}{9} = \dfrac{11}{9}$

c $\dfrac{3}{4} - \dfrac{1}{4} = \dfrac{2}{4}$

d $\dfrac{5}{6} - \dfrac{1}{6} = \dfrac{4}{6}$

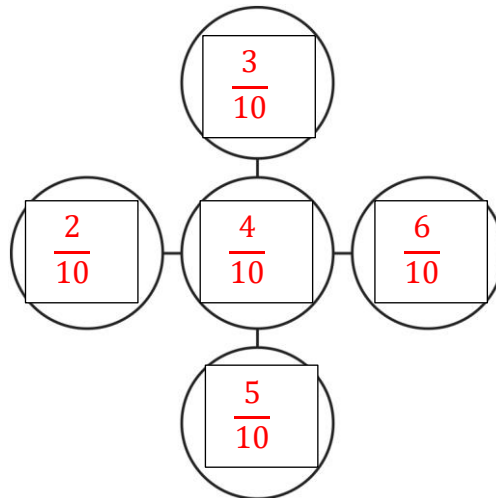15. Each missing digit in the calculation is a 1 or a 9.

$$\boxed{1}\,\boxed{9} \; + \; \boxed{9}\,\boxed{1} \; + \; \boxed{9}\,\boxed{1} \; = 201$$

16. Here are five number discs.

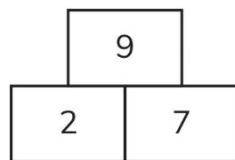$\dfrac{2}{10}$ $\dfrac{3}{10}$ $\dfrac{4}{10}$ $\dfrac{5}{10}$ $\dfrac{6}{10}$

Use each disc once to complete the cross pattern.

The sum of each line must be $\dfrac{12}{10}$

17. The top number in each pattern is the sum of the two numbers below.

	9	
2	7	

Complete these pyramids.

Pyramid 1:
	99	
53	46	
26	27	19

Pyramid 2:
	818	
436	382	
247	189	193

Pyramid 3:
	1055	
335	720	
128	207	513

6