1. Insert brackets where needed to the following number sentences to make the equality true.

$3 \times 174 + 26 = 600$

$168 \div 2 \times 3 = 28$

$20 + 50 \times 8 = 600 - 80 + 40$

$8 \times 64 - 40 = 20 \times 8 + 4 \times 8$

2. Mental calculations:

$360 \div 60 =$ $450 \div 50 =$ $660 \div 66 =$

$44 \div 22 =$ $24 \div 12 =$ $30 \div 15 =$

3.

a) Michael had n red balloons and m blue balloons. He gave the equal number of balloons to 4 friends. How many balloons did each friend get?

_____

b) Kate caught a fish, and Andrew caught 3 times more than Kate. What is the difference between the number of fish Andrew caught and the number of fish Kate caught?

_____

c) Andrew had d dollars. How much money does he have left after he bought 4 ice cream cones which cost c dollars each ?

_____

d) Sofia has x notebooks. At first, she used y notebooks, and then she used twice as many as she did the first time. How many notebooks does she have left?
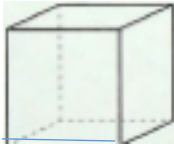
_____

4. Look at 2 sets A and B: A = {0, 5, 7},   B = {0, 3, 5, 7, 9}
Which one of these sets is a subset of the other?
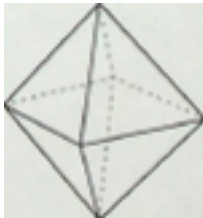
_____

5. How many faces, edges, and vertices do the following polyhedrons have?
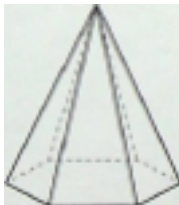
Faces _____   Edges _____   Vertices _____

Faces _____   Edges _____   Vertices _____

Faces _____   Edges _____   Vertices _____

Faces _____   Edges _____   Vertices _____
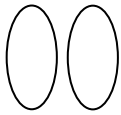
6. Solve the equations and check your answers:
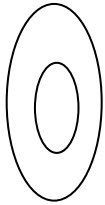
$3y + 923 = 941$ $975 - 5z = 625$ $2x - 27 = 15$

_____   _____   _____

_____   _____   _____

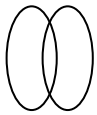_____   _____   _____

2

7. Connect each pair of circles with the correct pair of sets.

- set of cactuses
  - set of plants

- set of plants with red flowers
  - set of plants with thorns

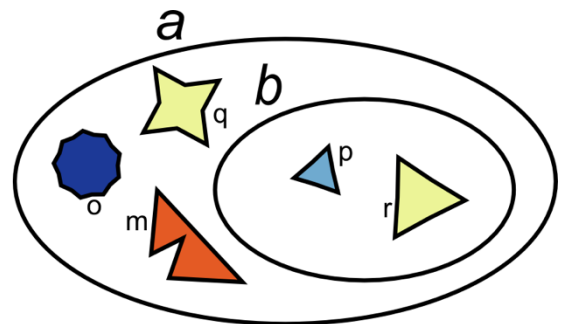- set of cactuses
  - set of roses

8. Using curly brackets, {}, write down the elements of the sets *a* and *b*.

Define each set by stating a property of the elements:

a = _____

b = _____

9. Games with matches: In the picture, 18 matches make up 6 squares. Take away 2 matches so that you would have 4 squares left.

3

10. On the picture below find acute, obtuse, right, and straight angles. Fill in the table.

Acute	Obtuse	Right	Straight

11. Connect the points on the circle in a such way, that you will get
   a) 5 – points star   b) 7 – points star