

number bonds within 20

partitioning

40 + 3
30 + 13
20 + 23
10 + 33

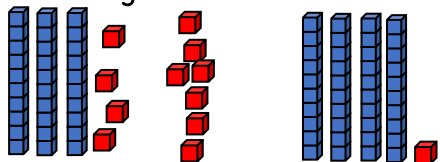
related facts to 100

If I know that $3 + 4$ is equal to 7, I also know that $30 + 40$ is equal to 70

commutativity

Addition can be done in any order
 $3 + 4 = 4 + 3$
Subtraction **cannot** be done in any order

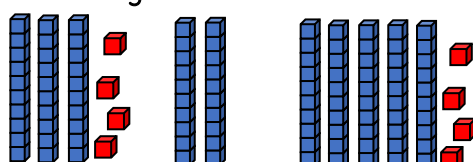
two-digit number and ones



$$34 + 7 = 41$$

inverse: $41 - 7 = 34$

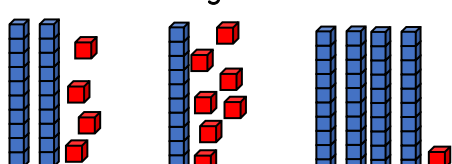
two-digit number and tens



$$34 + 20 = 54$$

inverse: $54 - 20 = 34$

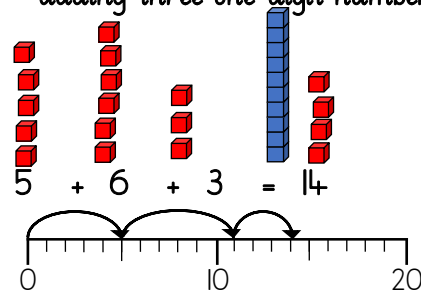
two two-digit number



$$24 + 17 = 41$$

inverse: $41 - 17 = 24$

adding three one-digit numbers



$$5 + 6 + 3 = 14$$

inverse and related facts

$3 + 4 = 7$	$30 + 40 = 70$	$300 + 400 = 700$
$4 + 3 = 7$	$40 + 30 = 70$	$400 + 300 = 700$
$7 - 3 = 4$	$70 - 30 = 40$	$700 - 300 = 400$
$7 - 4 = 3$	$70 - 40 = 30$	$700 - 400 = 300$

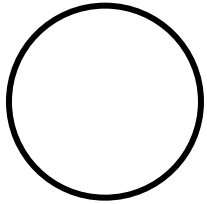
2	3
$0 + 2$ $1 + 1$	$0 + 3$ $1 + 2$
4	5
$0 + 4$ $1 + 3$ $2 + 2$	$0 + 5$ $1 + 4$ $2 + 3$
6	7
$0 + 6$ $1 + 5$ $2 + 4$ $3 + 3$	$0 + 7$ $1 + 6$ $2 + 5$ $3 + 4$
8	9
$0 + 8$ $1 + 7$ $2 + 6$ $3 + 5$ $4 + 4$	$0 + 9$ $1 + 8$ $2 + 7$ $3 + 6$ $4 + 5$
10	11
$0 + 10$ $1 + 9$ $2 + 8$ $3 + 7$ $4 + 6$ $5 + 5$	$0 + 11$ $1 + 10$ $2 + 9$ $3 + 8$ $4 + 7$ $5 + 6$

12	13	14
$0 + 12$ $1 + 11$ $2 + 10$ $3 + 9$ $4 + 8$ $5 + 7$ $6 + 6$	$0 + 13$ $1 + 12$ $2 + 11$ $3 + 10$ $4 + 9$ $5 + 8$ $6 + 7$	$0 + 14$ $1 + 13$ $2 + 12$ $3 + 11$ $4 + 10$ $5 + 9$ $6 + 8$ $7 + 7$
15	16	17
$0 + 15$ $1 + 14$ $2 + 13$ $3 + 12$ $4 + 11$ $5 + 10$ $6 + 9$ $7 + 8$	$0 + 16$ $1 + 15$ $2 + 14$ $3 + 13$ $4 + 12$ $5 + 11$ $6 + 10$ $7 + 9$	$0 + 17$ $1 + 16$ $2 + 15$ $3 + 14$ $4 + 13$ $5 + 12$ $6 + 11$ $7 + 10$ $8 + 9$
18	19	20
$0 + 18$ $1 + 17$ $2 + 16$ $3 + 15$ $4 + 14$ $5 + 13$ $6 + 12$ $7 + 11$ $8 + 10$ $9 + 9$	$0 + 19$ $1 + 18$ $2 + 17$ $3 + 16$ $4 + 15$ $5 + 14$ $6 + 13$ $7 + 12$ $8 + 11$ $9 + 10$	$0 + 20$ $1 + 19$ $2 + 18$ $3 + 17$ $4 + 16$ $5 + 15$ $6 + 14$ $7 + 13$ $8 + 12$ $9 + 11$ $10 + 10$

Y2- Geometry – Properties of Shapes

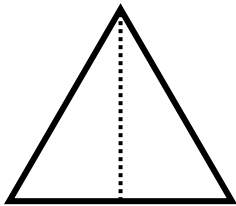
St Dennis
Primary Academy

2D shapes



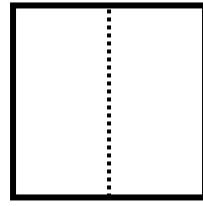
circle

1 curved side



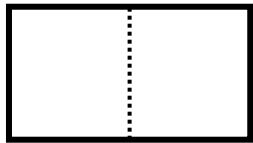
triangle

3 corners
3 sides



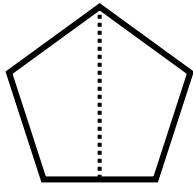
square

4 corners
4 sides



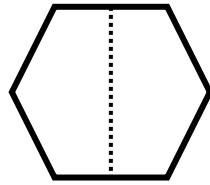
rectangle

4 corners
4 sides



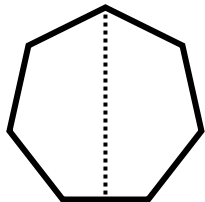
pentagon

5 corners
5 sides



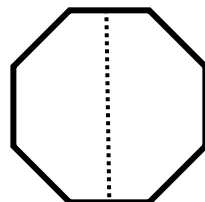
hexagon

6 corners
6 sides



heptagon

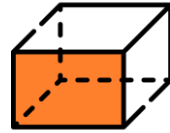
7 corners
7 sides



octagon

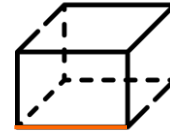
8 corners
8 sides

Properties of 3D shapes



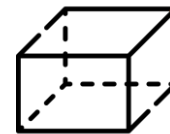
face

the flat surface
of a 3D shape



edge

where two faces
on a shape meet



vertex (plural:
vertices)

a point or corner
where edges meet

Properties of 2D shapes



side

a line that
joins two
vertices



angle (sometimes
vertex/vertices or corner)
where two sides meet

3D shapes



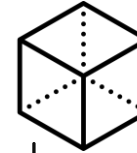
tetrahedron

4 triangular faces
6 edges
4 vertices



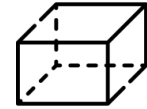
square-based pyramid

5 faces
8 edges
5 vertices



cube

6 square faces
12 edges
8 vertices



cuboid

6 faces
12 edges
8 vertices

cone



1 circular face
1 curved surface
1 curved edge
1 apex



cylinder

2 circular faces
1 curved surface
2 curved edges
0 vertices



triangular prism

5 faces
9 edges
6 vertices



sphere

1 curved surface
0 edges
0 vertices