Y2- Number and Place Value


| $T$ | $O$ |
| :--- | :--- |
| 9 | 4 |
| 2 | 4 |
| 4 | 9 |

ascending order:
$24 \quad 49 \quad 94$
descending order:
$94 \quad 49 \quad 24$


Multiples of 2: $2,4,6,8,10,12,14,16,18,20,22,24$
Multiples of 3: 3. 6, $9,12,15,18,21,24,27,30,33,36$
Multiples of 5: $5,10,15,20,25,30,35,40,45,50,55,60$
Multiples of 10: $10,20,30,40,50,60,70,80,90,100,110,120$
ninety-four

| $T$ | $O$ |
| :---: | :---: |
| 9 | 4 |


| 9 | 0 |
| :--- | :--- |
|  | 4 |

Numbers between 21-99 need hyphens unless they are multiples of ten:
fifty-three
twenty-two


| partitioning |
| :---: |
| 43 |
| $40+3$ |
| $30+13$ |
| $20+23$ |
| $10+33$ |

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 can not be
done in any order


two two-digit number

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


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

PRIMARY MATHS HU

## Y2- Multiplication and Division

Multiples of 2: $2,4,6,8,10,12,14,16,18,20,22,24$
Multiples of 3: 3. 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36
Multiples of 5: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 Multiples of 10: $10,20,30,40,50,60,70,80,90,100$,

Multiplication facts for the 2,5 and 10 times tables
$1 \times 2=2$
$2 \times 2=4$
$3 \times 2=6$
$4 \times 2=8$
$5 \times 2=10$
$6 \times 2=12$
$7 \times 2=14$
$8 \times 2=16$
$9 \times 2=18$
$10 \times 2=20$
$11 \times 2=22$
$12 \times 2=24$
$1 \times 5=5$
$2 \times 5=10$
$3 \times 5=15$
$4 \times 5=20$
$5 \times 5=25$
$6 \times 5=30$
$7 \times 5=35$
$8 \times 5=40$
$9 \times 5=45$
$10 \times 5=50$
$11 \times 5=55$
$12 \times 5=60$

$$
\begin{aligned}
1 \times 10 & =10 \\
2 \times 10 & =\mathbf{2 2} \\
3 \times 10 & =\mathbf{3 0} \\
4 \times 10 & =40 \\
5 \times 10 & =\mathbf{5 0} \\
6 \times 10 & =\mathbf{6 0} \\
7 \times 10 & =\mathbf{7 0} \\
8 \times 10 & =\mathbf{8 0} \\
9 \times 10 & =\mathbf{9 0} \\
10 \times 10 & =100 \\
11 \times 10 & =\mathbf{1 1 0} \\
12 \times 10 & =\mathbf{1 2 0}
\end{aligned}
$$

$12 \times 10=120$

## Using a times table fact



3 is half of 6 6 is double 3

30 is half of 60 60 is double 30
$3 \times 2=6$
$2 \times 3=6$
$30 \times 2=60$
$20 \times 3=60$
$6 \div 3=2$
$60 \div 3=20$
$6 \div 2=3$
$60 \div 2=30$

$$
\frac{1}{2} \text { of } 60=30
$$

| odd numbers | even numbers |
| :---: | :---: |
| Odd numbers are not <br> divisible by 2. The ones <br> digit in an odd number is <br> $1,3,5,7$ or 9 | Even numbers are <br> divisible by 2. <br> The ones digit in an even <br> number is $0,2,4,6$ or 8 |
| Example: <br> $3145 \quad 69$ | Example: <br> 42 |

Y2- Fractions
equivalence
$\frac{2}{4}$ is equivalent to $\frac{1}{2}$

(s)



## angles

Angles are a description of turn.

A right angle makes a quarter turn


Three right angles make three quarters of a turn


Two right angles make half a turn


Four right angles make a complete turn



```
Y2- Statistics
```

| tally chart |  | 25 |
| :---: | :---: | :---: |
| team | points |  |
| Green | HI HE HI HE HI |  |
| Blue | HI HH HH HH HH II | 27 |
| Red | HIH HH III | 13 |


| table |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| hockey | tennis | football | rugby | total |
| 21 | 41 | 16 | 22 | 100 |

If one part is missing, add the other parts together and subtract them from the total.

| hockey | tennis | football | rugby | total |
| :---: | :---: | :---: | :---: | :---: |
| 21 | 41 |  | 22 | 100 |

If the total is missing, add the parts together.

| hockey | tennis | football | rugby | total |
| :---: | :---: | :---: | :---: | :---: |
| 21 | 41 | 16 | 22 |  |



