# TUTALRELALL

Below are descriptors and pictures to support the delivery and practice of the Total Recall badges.

You do not have to test children on these exact questions, but they give you a clear indication and provide consistency for what is expected in order to achieve a badge.

Children must be fingertip quick and not use fingers to count on.

For the Leopard and Half badge they may be given more time as there is a longer Maths process required to answer these questions.









Zeign - division tables facts 2, 3, 4, 5, 10 and 11.

Tiggs division tables facts 6, 1, 8, 9 and 12.

Lagrard - multiphing and dividing whole and decimal numbers, by 10, 50, 100 and 1000.

Poiss Dot (Shaped - hame and describe properties of 20 and 30 shapes. Use terminology (face, edge, vertex).

Fairbow (Time) - days in a week; months in a year, seconds, hours, minutes; full the time to 5 minutes on a 12. hour and 24 hour clock.

Half - fractions and percentages of numbers up to 100 and multiples of 10/100, a.g., % of 80, 20% of 44, % of 180. Double - equivalent fractions, dy-crimin and percentages isochading tenths, fifthill, thirds, halves and quarters, recognising equivalents with handwidths, e.g., 0.45 / 45% / 45% 100.

# Turquoise

Recalling number bonds to 5 (including subtraction facts).



$$0 + 5$$

$$5 + 0$$

$$2 + 3$$

# Purple

1 more and 1 less to 10. At least 6 questions should be answered.

1 more than 8	1 less than 10	1 more than 5
1 more than 1	1 less than 8	1 less than 3
1 more than 7	1 less than 4	1 more than 9

# Orange Number bonds to 10 6 questions should be answered.

$$5 + ? = 10$$

$$? + 7 = 10$$

$$10 = 8 + ?$$

$$0 + ? = 10$$

$$10 = 9 + ?$$

$$4 + ? = 10$$

$$1 + ? = 10$$

$$6 + ? = 10$$



## Yellow One more or one less to 20

6 questions should be answered

One more than any number up to 19

One more than 15

One more than 6

One less than any number to 20

One less than 20

One less than 18



# Doubling and halving to 20

6 questions should be answered

Do	uble	Halve	
1	6	2	12
2	7	4	14
3	8	6	18
4	9	8	20
5	10	10	



#### Green Number bonds to 20

Number bonds to 10 can be revisited first. Then 6 questions.

Calculations can be read in any of the ways shown below.

$$1 + ? = 20$$

$$20 = ? + 0$$

$$2 + ? = 20$$

$$20 = 7 + ?$$

$$3 + ? = 20$$

# Crossing boundaries + and -

Addition and subtraction of a single digit number that crosses a tens boundary. Only numbers up to 100

8 questions should be answered.

Addition	Addition	Subtraction	Subtraction
7 + 4	24 + 8	12 - 4	25 - 8
9 + 6	32 + 9	11 - 9	83 - 9
8 + 7	87 + 5	13 - 6	64 - 7
4 + 9	63 + 9	15 - 8	52 - 5
5 + 7	77 + 4	14 - 7	24 - 6



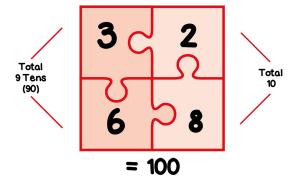
#### Pink Number bonds to 100



Begin with multiples of 10. Related to jigsaw numbers. 6 questions.

$$? + 40 = 100$$

$$100 = 0 + ?$$



Progress to:

$$4 + ? = 100$$

$$100 = 17 + ?$$

$$100 = 45 + ?$$

$$100 = 59 + ?$$

Bronze 2x 5x 10x



Three questions no	ot in ord	ler from eac	h x table
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2 x 2	3 x 5	10 x 12
7 x 2	5 x 11	10 x 0
2 x 12	7 x 5	10 x 40
6 x 2	0 x 5	10 x 9

Silver 3x 4x 6x 8x	
3 questions not in order from each times table.	

3 x 4	4 x 7	6 x 3	8 x 8
5 x 3	6 x 4	8 x 6	8 x 11
0 x 3	5 x 4	5 x 6	8 x 4
12 x 3	4 x 11	6 x 6	8 x 7
9 x 3	2 x 4	6 x 7	8 x 12

## Gold 7x 9x 11x

3 questions not in order from each times table.

7 x 3	9 x 4	11 x 0
7 x 3	9 x 4	11 x (

6 x 7	5 x 9	11 x 11
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7 x 5	8 x 9	11 x 3



# Black badge

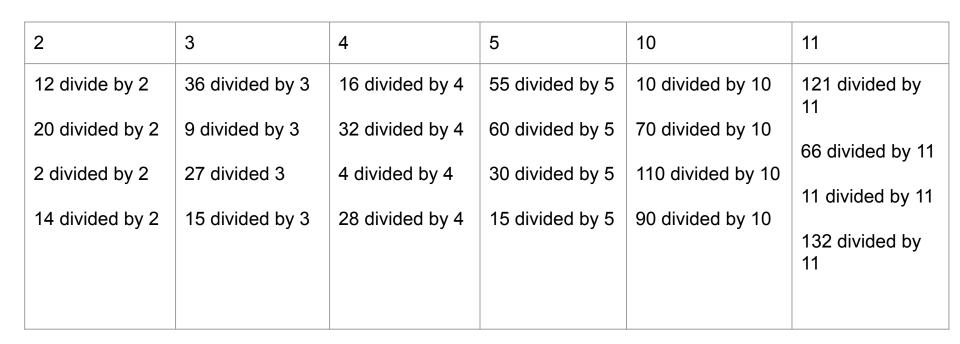
Revisit pink, bronze, silver and gold badge

10 questions in total from the previous x tables and number bonds to 100.

Zebra

Division facts 2, 3, 4, 5, 10 and 11







# Tiger



Dividing by 6, 7, 8, 9 and 12

3 questions not in order from each division group.

6	7	8	9	12
36 divided by 6	28 divided by 7	64 divided by 8	45 divided by 9	96 divided by 12
12 divided by 6	77 divided by 7	24 divided by 8	18 divided by 9	72 divided by 12
42 divided by 6	84 divided by 7	96 divided by 8	54 divided by 9	48 divided by 12
18 divided by 6	49 divided by 7	8 divided by 8	81 divided by 9	144 divided by 12
72 divided by 6	63 divided by 7	40 divided by 8	108 divided by 9	132 divided by 12

# Leopard

x and dividing whole and decimal numbers by 10, 50, 100 and 1000

# 0000

#### Two questions from each area.

X 10	X 50	X 100	X 1000
13 x 10 = 130 765 x 10 = 7650 4.3 x 10 = 43 1.07 x 10 = 17	All are multiples of 2 14 x 50 = 700 46 x 50 = 2300 142 x 50 = 7100 280 x 50 = 14,000	56 x 100 = 5600 731 x 100 - 73,100 4.5 x 100 = 450 0.32 x 100 = 32 4.06 x 100 = 406	23 x 1000 = 23,000 5.6x1000 = 5600 14.2 = 14,200 0.5 x 1000 = 500 1.06 x 1000 = 1060
÷ 10	÷ 50	÷ 100	÷1000
234÷10 = 23.4 40÷10 = 4 4800 ÷ 10 = 480 7÷10 = 0.7 3.6 ÷ 10 = 0.36	160 ÷ 50 = 3.2 2400 ÷ 50 = 48 370 ÷ 50 = 7.4 8700 ÷ 50 = 174	45 ÷ 100 = 0.45 327 ÷ 100 = 3.27 8.3 ÷ 100 = 0.083 1345 ÷ 100 = 13.45	4567 ÷ 1000 = 4.567 345.6 ÷ 1000 = 0.3456 12,304 ÷ 1000 = 12.304

#### Polka Dot

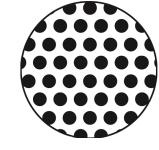
#### Name and describe properties of 2D and 3D shape

#### 6 questions.

#### 2D Shapes

Name	Sides	Vertices
triangle	3	3
circle	1	0
square	4	4
rectangle	4	4
pentagon	5	5
hexagon	6	6
oval	1	0
rhombus	4	4
trapezium 📗	4	4
parallelogram 📕	4	4

3D Shapes						
Name	Surfaces		Edges		Vertices	Picture
	Flat	Curved	Flat	Curved	vertices	Picture
sphere	0	1	0	0	0	
cube	6	0	12	0	8	
cuboid	6	o	12	0	8	
cone	1	1	0	1	0	
cylinder	2	1	0	2	0	
square-based pyramid	5	0	8	0	5	4
tetrahedron	4	0	6	0	4	
triangular prism	5	0	9	0	6	
pentagonal prism	7	0	15	0	10	
hexagonal prism	8	0	18	0	12	9

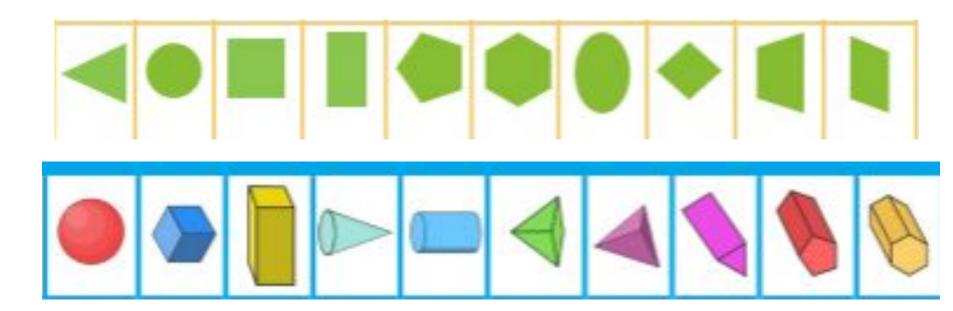


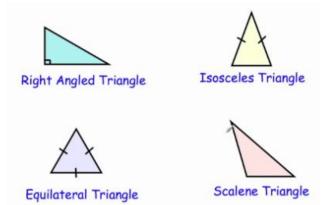
#### 2D

- How many sides does a hexagon have?
- What shape has 5 vertices?
- What is the name of X shape?
- Name the triangle which has sides of equal length.

#### 3D

- Name the faces on a square based pyramid
- How many edges does a cube have?
- Describe the properties of a cylinder.





#### Blue

Range of conversions for length, capacity and mass. Including decimals conversions. 6 questions



13mm = ? cm

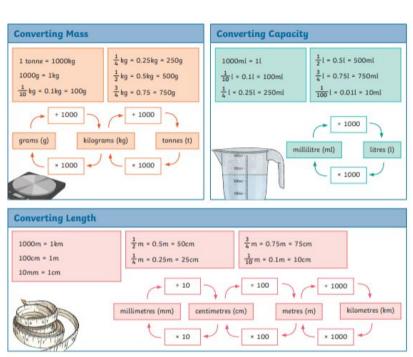
3km = ? m

4.2 kg = ?g

630g = ? kg

2500 ml = ?I

Questions must include whole and decimal amounts.





#### Rainbow

Days in a week, months in a year, seconds, hours minutes.

Tell the time to 5 minutes on a 12hr and 24hr clock.

8 questions - 2 questions must use clocks.

How many days are there in a week?

What day comes after Wednesday?

What day is before Saturday?

How many months in a year?

How many months have 31 days?

Which month has less than 30 days?

60minutes = ? hours

180 minutes = ? hours

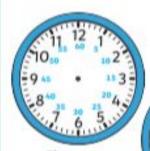
2 hours = ? minutes

120 seconds = ? minutes

4 minutes = ? seconds

24 hours = ? days





There are 60 seconds in an minute. There are 60 minutes in an hour.





There are 24 hours in a day There are
7 days
in a week.





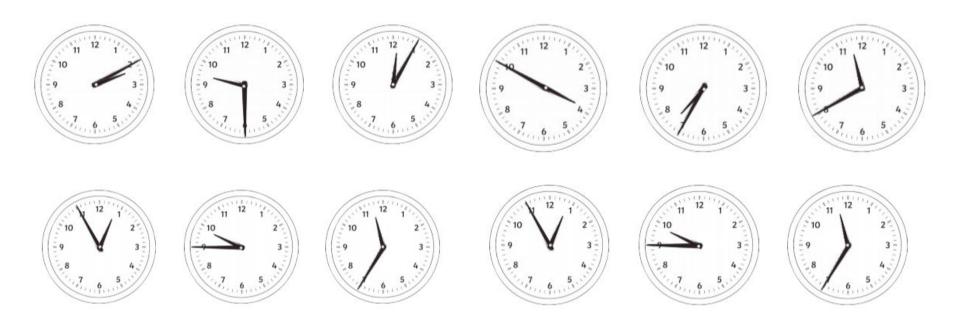
There are

#### Compare Durations of Time

Compare the time using the vocabulary 'longer' and 'shorter'.

180 seconds	is the same	3 minutes.
90 minutes	is shorter than	2 hours.
48 hours	is longer than	1 day.

Using these clocks can you tell the time to 5 minutes? Can you read the time and convert it from am to pm?



### Half



Fractions and percentages of numbers up to 100 and multiples of 10 and 100.

8 questions - two from each section.

Fractions of numbers to 100	Fractions of multiples of 10 and 100	Percentages of numbers to 100	Percentages of multiples of 10 and 100
1/3 of 36 1/4 of 88 1/2 of 32 1/5 of 45	1/10 of 80 ½ of 50 ¼ of 200 ½ of 700 1/10 of 300	10%, 20%, 50%, 25%, 40% of different numbers up to 100	10%, 20%, 50%, 25%, 40% etc 300 80 40

#### Quarters



Equivalent fraction, percentages and decimals 6 questions.

$$37/100 = 37\% = 0.37$$

$$\frac{3}{4} = 75\% = 0.75$$

$$1/10 = 10\% = 0.1$$

$$3/100 = 3\% = 0.03$$

$$7/10 = 70\% = 0.7$$

$$\frac{3}{5} = 60\% = 0.6$$

$$\frac{1}{3}$$
 = 33.3% = 0.33

$$\frac{1}{5} = 20\% = 0.2$$

$$\frac{1}{4} = 25\% = 0.25$$