

Name: _____

Class: _____

Number Star Target

Star 3

I will need to:

- Know facts from the 2x table by completing number patterns and using formal recording. For Example:

2, 4, 6, 8, __, __

10, 12, 14, 16, __, __

4, __, 8, __, 12, __

$2 \times 6 = \underline{\quad}$

$8 \times 2 = \underline{\quad}$

$10 \times 2 = \underline{\quad}$

- Understand how to use the + and = signs and know that addition can be done in any order so that I can add 2 numbers where the total is less than 20.

For example:

$$3 + \underline{\quad} = 10$$

$$10 - \underline{\quad} = 4$$

$$6 + \underline{\quad} = 20$$

$$20 - \underline{\quad} = 5$$

$$\underline{\quad} + 7 = 10$$

$$10 - \underline{\quad} = 0$$

$$\underline{\quad} + 1 = 10$$

$$20 - 2 = \underline{\quad}$$

$$\underline{\quad} + 2 = 20$$

$$10 - 3 = \underline{\quad}$$

You will have 15 questions to answer in 5 minutes

Name: _____

Class: _____

Number Star Target

Star 4

I will need to:

- Know by heart all pairs of numbers that total 10 (addition and subtraction facts).

For example:

$$3 + \underline{\quad} = 10 \quad 10 = 4 + \underline{\quad} \quad 10 - 3 = \underline{\quad} \quad 10 - \underline{\quad} = 2$$

- Be able to say which number is 1 or 10 more/less than a 2 digit number.

For example:

1 more than 29 →

1 more than 19 →

1 less than 14 →

1 less than 20 →

10 more than 15 →

10 more than 4 →

10 less than 85 →

10 less than 28 →

- Know multiplication facts for the 10x table.

For example:

$$10 \times \underline{\quad} = 80 \quad 70 = \underline{\quad} \times 7 \quad 10 \times 4 = \underline{\quad}$$

You will have 20 questions to answer in 8 minutes

Name: _____

Class: _____

Number Star Target

Star 5

I will need to:

- Know addition and subtraction bonds to 20.
- Know by heart, or work out very quickly, all pairs of numbers that total 20. For example -

$$18 + \underline{\quad} = 20$$

$$\underline{\quad} + 6 = 20$$

$$12 + \underline{\quad} = 20$$

$$\underline{\quad} + 13 = 20$$

$$20 - \underline{\quad} = 14$$

$$20 - \underline{\quad} = 18$$

- Be able to partition numbers within 10.

For example-

$$3 + \underline{\quad} = 9 \quad 4 + \underline{\quad} = 8 \quad 3 + \underline{\quad} = 7 \quad \underline{\quad} + 2 = 9$$

- Be able to use partitioned numbers to add within 20.

For example:

$$8+7 \text{ is the same as } 8+2+5$$

$$6+8 \text{ is the same as } 6+4+4$$

$$12+7 \text{ is the same as } 12+3+2$$

- Know multiplication facts for the 5x table.
-

You will have 25 questions to answer in 15 minutes

Name: _____

Class: _____

Number Star Target

Star 6

I will need to:

- Give a double or half of any number up to 10.

For example -

Double 1, 5, 3, 4, 2

Halve 10, 4, 6, 2, 8

- Know division facts for 2x table
- To add or subtract a single digit to a two digit number.

You will have 30 questions to answer in 8 minutes

Name: _____

Class: _____

Number Star Target

Star 7

I will need to:

- Know by heart, or work out very quickly, all addition and subtraction facts for each number to 10.

For example -

$$6 + \underline{\quad} = 9$$

$$3 + \underline{\quad} = 8$$

$$2 + 5 = \underline{\quad}$$

$$\underline{\quad} + 4 = 10$$

$$9 - 2 = \underline{\quad}$$

$$8 - \underline{\quad} = 1$$

$$\underline{\quad} - 5 = 5$$

$$\underline{\quad} - 3 = 7$$

- Know by heart, or work out very quickly, all pairs of multiples of 10 that total 100. For example -

$$40 + \underline{\quad} = 100$$

$$\underline{\quad} + 20 = 100$$

- Know division facts for 10x table.

You will have 35 questions to answer in 15 minutes

Name: _____

Class: _____

Number Star Target

Star 8

I will need to:

- Know by heart, or work out very quickly, all pairs of multiples of 10 that total 100. For example -

$$40 + \underline{\quad} = 100$$

$$\underline{\quad} + 20 = 100$$

- Know doubles and halves of numbers to double 50 without having to convert units to tens.
- Know division facts for 5x table

You will have 40 questions to answer in 15 minutes

Name: _____

Class: _____

Number Star Target

Star 9

I will need to:

- Know addition and subtraction bonds to 100.

For example $64+36=100$ $100-32=68$ $12+88=100$ $100-54=46$

- Understand what '=' means and use facts from 2x, 5x and 10x table to solve problems.

For example.

$2 \times 5 = 1 \times 10$ $10 \times 5 = 5 \times 10$ $8 \times 5 = 10 \times 4$ $2 \times 10 = 5 \times 4$

You will have 45 questions to answer in 15 minutes.

Name: _____

Class: _____

Number Star Target

Star 10

I will need to:

- Know, or work out very quickly, all addition and subtraction facts for all numbers to 20. For example -

$6 + 5 = \underline{\quad}$

$\underline{\quad} = 9 + 8$

$13 = 7 + \underline{\quad}$

$11 + \underline{\quad} = 18$

$18 - 5 = \underline{\quad}$

$\underline{\quad} - 7 = 12$

$16 - \underline{\quad} = 11$

$15 - 8 = \underline{\quad}$

- Know by heart, or work out very quickly, all pairs of multiples of 5 with a total of 100. For example -

$60 + \underline{\quad} = 100$

$45 + \underline{\quad} = 100$

$75 + \underline{\quad} = 100$

$\underline{\quad} + 30 = 100$

- Know by heart, or work out very quickly, all pairs of multiples of 100 with a total of 1000. For example -

$400 + \underline{\quad} = 1000$

$\underline{\quad} + 200 = 1000$

$1000 - 500 = \underline{\quad}$

$1000 - \underline{\quad} = 700$

You will have 50 questions to answer in 15 minutes.

Name: _____

Class: _____

Number Star Target

Star 11

I will need to:

- Know by heart the multiplication and division facts for the 2x, 3x, 4x, 5x and 10 x tables. For example -

$$7 \times 4 = \underline{\quad}$$

$$8 \times \underline{\quad} = 40$$

$$\underline{\quad} \times 3 = 24$$

$$\underline{\quad} \times 7 = 28$$

$$18 \div 3 = \underline{\quad}$$

$$\underline{\quad} \div 5 = 6$$

$$30 \div \underline{\quad} = 3$$

$$16 \div \underline{\quad} = 4$$

- Know facts about length, mass, capacity and time. You will need to know these facts:

1 metre = 100 centimetres (cms.)

1 kilometre = 1000 metres (m.)

1 kilogram = 1000 grams (g.)

1 litre = 1000 millilitres (ml.)

1 minute = 60 seconds

1 hour = 60 minutes

1 day = 24 hours

1 year = 52 weeks

1 year = 12 months

£1 = 100 pence

You will have 60 questions to answer in 15 minutes.

Name: _____

Class: _____

Number Star Target

Star 12

I will need to:

- Know by heart the multiplication facts for the 2x,3x,4x, 5x,6x,8x,10x tables. For example -

$6 \times 8 = \underline{\quad}$

$4 \times \underline{\quad} = 24$

$\underline{\quad} \times 8 = 64$

$18 = \underline{\quad} \times 3$

$56 = \underline{\quad} \times 8$

$\underline{\quad} = 7 \times 6$

- Know by heart the division facts for the 2x,3x,4x,5x,10x tables. For example -

$35 \div 5 = \underline{\quad}$

$21 \div 3 = \underline{\quad}$

$\underline{\quad} \div 4 = 7$

$\underline{\quad} \div 10 = 10$

$18 \div \underline{\quad} = 6$

$32 \div \underline{\quad} = 8$

- Know facts about money, length, mass, capacity and time and use them to calculate for example:

$2 \text{ kilograms} = \underline{\quad} \text{ g.}$

$5000 \text{ g.} = \underline{\quad} \text{ kg.}$

$4 \text{ cms.} = \underline{\quad} \text{ millimetres}$

$30 \text{ millimetres} = \underline{\quad} \text{ cms.}$

$2 \text{ metres} = \underline{\quad} \text{ cms.}$

$400 \text{ cms.} = \underline{\quad} \text{ m.}$

$3 \text{ metres} = \underline{\quad} \text{ millimetres}$

$4000 \text{ millimetres} = \underline{\quad} \text{ m.}$

$2 \text{ kms} = \underline{\quad} \text{ metres}$

$3200 \text{ m.} = \underline{\quad} \text{ kms } \underline{\quad} \text{ m.}$

$3 \text{ litres} = \underline{\quad} \text{ ml.}$

$2500 \text{ mls.} = \underline{\quad} \text{ l. } \underline{\quad} \text{ ml.}$

$3 \text{ weeks} = \underline{\quad} \text{ days}$

$24 \text{ months} = \underline{\quad} \text{ years}$

$£5.16 = \underline{\quad} \text{ pence}$

$426 \text{ pence} = £ \underline{\quad}$

- Know how many days in each month of the year. Remember:
30 days has September
April, June and November
All the rest have 31
Except February alone
Which has 28 days clear
But 29 each leap year.

You will have 70 questions to answer in 20 minutes.

Name: _____

Class: _____

Number Star Target

Bronze Star

I will need to:

- Know multiplication and division facts for 2x, 3x, 4x, 5x, 6x, 8x, 10x tables. For example -

$3 \times \underline{\quad} = 27$

$8 \times 6 = \underline{\quad}$

$32 = \underline{\quad} \times 4$

$56 \div 8 = \underline{\quad}$

$40 \div \underline{\quad} = 5$

$42 \div 6 = \underline{\quad}$

- Understand remainders in division. For example -

Ring the numbers that have a remainder of 1 when you

- divide by 3 → 23, 24, 25
- divide by 4 → 18, 31, 37
- divide by 5 → 35, 21, 24
- divide by 6 → 41, 51, 61
- divide by 8 → 31, 41, 51
- divide by 10 → 19, 91, 25

- Know facts about money, length, mass, capacity and time and use them to calculate for example:

$300 \text{ years} = \underline{\quad} \text{ centuries}$

$1 \text{ millennium} = \underline{\quad} \text{ years}$

$20 \text{ minutes} = \underline{\quad} \text{ seconds}$

$5 \text{ weeks} = \underline{\quad} \text{ days}$

$1 \text{ year} = \underline{\quad} \text{ days}$

$1 \text{ leap year} = \underline{\quad} \text{ days}$

$2 \text{ years} = \underline{\quad} \text{ months}$

$3 \text{ hours} = \underline{\quad} \text{ minutes}$

$500 \text{ mls.} = \underline{\quad} \text{ litre}$

$2500 \text{ g} = \underline{\quad} \text{ kgs}$

$1750 \text{ m.} = \underline{\quad} \text{ kms}$

$\frac{1}{2} \text{ m.} = \underline{\quad} \text{ cms.}$

$5 \text{m. } 30 \text{ cms} = \underline{\quad} \text{ cms}$

$\frac{1}{4} \text{ km} = \underline{\quad} \text{ m.}$

You will have 80 questions to answer in 20 minutes

Name: _____

Class: _____

Number Star Target

Silver Star

I will need to:

- Know by heart all multiplication and division facts for all tables up to 10×10 . For example -

$7 \times 9 = \underline{\quad}$

$4 \times \underline{\quad} = 36$

$\underline{\quad} \times 8 = 56$

$81 \div \underline{\quad} = 9$

$8 = 72 \div \underline{\quad}$

$49 \div \underline{\quad} = 7$

- Multiply and divide any number by 10 or 100. For example -

$23 \times 10 = \underline{\quad}$

$14 \times 100 = \underline{\quad}$

$\underline{\quad} \times 10 = 3700$

$\underline{\quad} \div 10 = 67$

$\underline{\quad} \div 100 = 50$

$\underline{\quad} \div 10 = 84$

- Know facts about money, length, mass, capacity and time and use them to calculate for example:

$2.45 \text{ m.} = \underline{\quad} \text{ cms.}$

$2.9 \text{ kgs} = \underline{\quad} \text{ g.}$

$3695 \text{ m.} = \underline{\quad} \text{ kms}$

$4\frac{1}{2} \text{ litres} = \underline{\quad} \text{ ml}$

$240 \text{ mins} = \underline{\quad} \text{ hours}$

$100 \text{ years} = \underline{\quad} \text{ months}$

- Understand remainders in division. For example -

Ring the numbers that have a remainder of 2 when you

- divide by 3 → 28, 29, 30
- divide by 4 → 19, 31, 34
- divide by 5 → 37, 21, 28
- divide by 6 → 42, 50, 56
- divide by 7 → 27, 36, 51
- divide by 8 → 21, 28, 34
- divide by 9 → 45, 55, 65
- divide by 10 → 102, 103, 104

You will have 90 questions to answer in 20 minutes

Name: _____

Class: _____

Number Star Target

Gold Star

I will need to:

- Know by heart all multiplication and division facts for all tables up to 10×10 .
- Multiply any number by 10, 100, 1000
- Know facts about length, mass, capacity and time and use them to calculate for example -

$$14 \text{ kms.} = \underline{\quad} \text{m.}$$

$$423 \text{ cms.} = \underline{\quad} \text{m.}$$

$$15 \text{ cms} = \underline{\quad} \text{ millimetres}$$

$$4750 \text{ ml.} = \underline{\quad} \text{l.}$$

$$4 \frac{3}{4} \text{ kg} = \underline{\quad} \text{g.}$$

$$42 \text{ days} = \underline{\quad} \text{ weeks}$$

- Understand remainders in division. For example -

Ring the numbers that have a remainder of 3 when you

- divide by 4 → 19, 29, 34
- divide by 5 → 35, 47, 59
- divide by 6 → 23, 33, 45
- divide by 7 → 29, 39, 52
- divide by 8 → 28, 33, 43
- divide by 9 → 48, 58, 69
- divide by 10 → 93, 39, 50

- Recognise the equivalence between decimals, fractions and percentages. For example -

$$\frac{1}{2} = \underline{\quad} \%$$

$$\frac{1}{4} = \underline{\quad} \%$$

$$\frac{3}{4} = \underline{\quad} \%$$

- Write as a decimal: - $\frac{1}{10}$ (one tenth); $\frac{1}{5}$ (one fifth); half; a quarter.
- Find fractions and percentages of whole numbers. For example -

$$\frac{1}{8} \text{ of } 800$$

$$\frac{5}{8} \text{ of } 40$$

$$\frac{7}{8} \text{ of } 80$$

$$\frac{3}{4} \text{ of } 200$$

$$\frac{1}{3} \text{ of } 90$$

$$\frac{2}{3} \text{ of } 600$$

$$10\% \text{ of } 300$$

$$20\% \text{ of } 500$$

$$5\% \text{ of } 400$$

You will have 100 questions to answer in 20 minutes.

Name: _____

Class: _____

Number Star Target

Platinum Star

I will need to:

- Know by heart all multiplication and division facts for all tables up to 10×10 .
- Multiply any number by 10, 100, 1000
- Know facts about length, mass, capacity and time and use them to calculate for example -

$$14 \text{ kms.} = \underline{\quad} \text{m.}$$

$$423 \text{ cms.} = \underline{\quad} \text{m.}$$

$$15 \text{ cms} = \underline{\quad} \text{ millimetres}$$

$$4750 \text{ ml.} = \underline{\quad} \text{l.}$$

$$4 \frac{3}{4} \text{ kg} = \underline{\quad} \text{g.}$$

$$42 \text{ days} = \underline{\quad} \text{ weeks}$$

- Recognise the equivalence between decimals, fractions and percentages. For example -

$$\frac{1}{2} = \underline{\quad} \%$$

$$\frac{1}{4} = \underline{\quad} \%$$

$$\frac{3}{4} = \underline{\quad} \%$$

- Write as a decimal: - $\frac{1}{10}$ (one tenth); $\frac{1}{5}$ (one fifth); half; a quarter.

- Find fractions and percentages of whole numbers. For example -

$$\frac{1}{8} \text{ of } 800$$

$$\frac{5}{8} \text{ of } 40$$

$$\frac{7}{8} \text{ of } 80$$

$$\frac{3}{4} \text{ of } 200$$

$$\frac{1}{3} \text{ of } 90$$

$$\frac{2}{3} \text{ of } 600$$

$$10\% \text{ of } 300$$

$$20\% \text{ of } 500$$

$$5\% \text{ of } 400$$

- To understand the use of brackets. For example -
 $247 + (8 \times \underline{\quad}) = 535$

- To be able to solve worded problems mentally.

You will have 100 questions to answer in 20 minutes.

Name: _____

Class: _____

Number Star Target

Steel Star

I will need to:

- Know by heart all multiplication and division facts for all tables up to 10×10 and use them to calculate larger numbers.
- Know how to add and subtract two fractions.

$$\frac{3}{8} + \frac{2}{5} =$$

$$\frac{5}{6} - \frac{3}{4} =$$

- Know how to multiply and divide decimal numbers

$$5.3 \times 14 =$$

$$6.3 \times 16 =$$

- Know how to order decimal numbers and convert them to a fraction and vice versa

$$\frac{1}{10}$$

0.9

- Know how to find the highest common factor of a given set of numbers

Find the highest common factor between 12 and 18

- Know how to find a number to the power of...

$$6^2$$

$$2^3$$

$$4^3$$

- To understand the use of brackets. For example -

$$247 + (8 \times \underline{\quad}) = 535$$

You will have 60 questions to answer in 20 minutes.

Name: _____

Class: _____

Number Star Target

Titanium Star

I will need to:

- Know how to add, subtract and multiply two fractions.

$$\frac{2}{3} + \frac{1}{6} = \quad \frac{3}{5} - \frac{2}{7} = \quad \frac{4}{7} \times \frac{3}{4} =$$

- Know how to order fractions and decimal numbers, be able to relate fractions and find differences between fractions and decimals.

What is exactly half way between $\frac{2}{7}$ and $\frac{3}{8}$?

Choose the two decimals which are closest in value:

0.22, 0.022, 0.2, 0.05, 0.5

- Know how to find the square root and cube root of a number:

$$\sqrt{100}$$

$$\sqrt[3]{729}$$

- To add, subtract, multiply and divide positive and negative numbers:

$$-5 \times -9 =$$

$$12 + -9 =$$

$$-24 \div 6 =$$

- Know how to find percentages of percentages.

What is 50% of 75%?

- To be able to solve algebraic equations:

$$4t + 15 = 7t - 3$$

You will have 50 questions to answer in 15 minutes.