

Name _____

Addition/subtraction

1. Which two numbers add up to make 100?

☐ 38 and 52

☐ 53 and 47

☐ 22 and 77

2. What is the sum of 200, 300, 150 and 250?

☐ 900

☐ 850

☐ 1000

3. What is the missing number? $87 + ? = 130$

☐ 35

☐ 50

☐ 43

4. What do you get if you increase 316 by 500?

☐ 616

☐ 800

☐ 816

5. What must be added to 378 to make 400?

- ☐ 33
- ☐ 22
- ☐ 44

6. A games console is £395. In a sale, it is reduced by £150. What is its sale price?

- ☐ £245
- ☐ £295
- ☐ £145

7. What is the missing number? $92 - ? = 57$

- ☐ 35
- ☐ 36
- ☐ 37

8. What do you get if you decrease 486 by 200?

- ☐ 686
- ☐ 486
- ☐ 286

9. Lily is 91. Her great granddaughter Emma is 79 years younger. How old is Emma?

- ☐ 11 years old
- ☐ 12 years old
- ☐ 13 years old

10.What must be taken away from 519 to make 400?

- ☐ 19
- ☐ 119
- ☐ 129

Decimals

1.Which decimal is equal to 7 hundredths?

- ☐ 0.7
- ☐ 0.07
- ☐ 0.007

2.Which decimal is equal to 114 thousandths?

- ☐ 0.114
- ☐ 1.14
- ☐ 11.4

3.Which number is 0.1 less than 3.0?

- ☐ 2.9
- ☐ 2.99
- ☐ 2.999

4. What fraction is equal to 0.25?

- ☐ one half
- ☐ one quarter
- ☐ one fifth

5. Which is bigger, 0.03 or 0.30?

- ☐ 0.03
- ☐ 0.30
- ☐ Neither. They're both the same.

6. Which decimal is NOT between 2.8 and 2.9?

- ☐ 2.87
- ☐ 2.81
- ☐ 2.08

7. Which set of decimals are in order, from smallest to largest?

- ☐ 0.4, 0.43, 0.07
- ☐ 0.4, 0.07, 0.43
- ☐ 0.07, 0.4, 0.43

8. What must be added to 1.28 to make 1.3?

- ☐ 0.02
- ☐ 0.2
- ☐ 2

9. What is 2.4 plus 1.34?

- ☐ 3.43
- ☐ 3.8
- ☐ 3.74

10. Which percentage is equal to 0.6?

- ☐ 6%
- ☐ 60%
- ☐ 600%

Factors and multiples

1. What is a factor?

- ☐ A number that divides exactly into another number.
- ☐ A number that can be halved.
- ☐ A number that can be multiplied by itself.

2. Which number is a factor of 12?

- ☐ 5
- ☐ 4
- ☐ 8

3. Which number is a factor of 25?

☐ 20

☐ 5

☐ 10

4. Which numbers are all factors of 10?

☐ 2, 3, 5.

☐ 1, 2, 4.

☐ 2, 5, 10.

5. Which numbers are all factors of 16?

☐ 4, 6, 8.

☐ 2, 8, 4.

☐ 1, 2, 9.

6. Which pair of factors make 12?

☐ 3 and 4

☐ 2 and 3

☐ 5 and 4

7. Which number is a multiple of 2?

☐ 1321

☐ 2543

☐ 5620

8. Which number is a multiple of 5?

- ☐ 2876
- ☐ 1985
- ☐ 1423

9. Which number is a multiple of 10?

- ☐ 12, 542
- ☐ 15, 556
- ☐ 13, 400

10. Which pair of factors make 20?

- ☐ 2 and 18
- ☐ 15 and 5
- ☐ 4 and 5

Fractions basics

1. The top number in a fraction is called the...

- ☐ Denominator
- ☐ Numerator
- ☐ Fraction

2.The bottom number in a fraction is called the...

- ☐ Denominator
- ☐ Numerator
- ☐ Fraction

3.Eight thirds is an improper fraction. Which mixed number is equal to it?

- ☐ Two and three thirds
- ☐ Two and a half
- ☐ Two and two thirds

4.19 fifths is an improper fraction. Which mixed number is equal to it?

- ☐ Five and three fifths
- ☐ Three and four fifths
- ☐ Four and five fifths

5.Which fraction is the smallest?

- ☐ One half
- ☐ One quarter
- ☐ Six eighths

6.Which fraction is the biggest?

- ☐ One quarter
- ☐ Three quarters
- ☐ Seven eighths

7. Jack has 12 chocolates. He gives one quarter of them to his friend. How many chocolates is this?

☐ 7

☐ 3

☐ 5

8. Emma has a box of 15 chocolates. 10 are milk chocolate. What fraction is this?

☐ One third

☐ One fifth

☐ Two thirds

9. Lucy has a bag of 6 counters. 5 of them are red. The rest are blue. What fraction are blue?

☐ One sixth

☐ Two sixths

☐ Five sixths

10. A pizza is divided into 8 pieces. 2 pieces are eaten. What fraction is left?

☐ One half

☐ Six eighths

☐ One eighth

Equivalent fractions

1. Which fraction is the same as $\frac{2}{4}$?

☐ $\frac{1}{3}$

☐ $\frac{3}{7}$

☐ $\frac{1}{2}$

2. Which fraction is the same as $\frac{4}{16}$?

☐ $\frac{1}{3}$

☐ $\frac{1}{4}$

☐ $\frac{2}{5}$

3. Which fraction is equivalent to $\frac{2}{6}$?

☐ $\frac{1}{3}$

☐ $\frac{1}{4}$

☐ $\frac{1}{5}$

4. Which fraction is equivalent to $\frac{4}{20}$?

☐ $\frac{1}{4}$

☐ $\frac{1}{6}$

☐ $\frac{1}{5}$

5.To simplify a fraction, what must you do?

- ☐ Divide the numerator and denominator by the same number.
- ☐ Multiply the numerator and denominator by the same number.
- ☐ Divide the numerator and denominator by different numbers.

6.Which number would you need to divide by to simplify $\frac{15}{30}$?

- ☐ 2
- ☐ 5
- ☐ 10

7.Which number would you need to divide by to simplify $\frac{48}{64}$?

- ☐ 7
- ☐ 9
- ☐ 8

8.Which number would you need to divide by to simplify $\frac{18}{27}$?

- ☐ 7
- ☐ 9
- ☐ 8

9.Which fraction is equivalent to $\frac{10}{50}$?

- ☐ $\frac{1}{5}$
- ☐ $\frac{2}{5}$
- ☐ $\frac{1}{4}$

10. Which fraction is equivalent to $\frac{6}{36}$?

☐ $\frac{1}{5}$

☐ $\frac{1}{6}$

☐ $\frac{1}{8}$

Ordering/comparing fractions

1. Which of these fractions is the largest?

☐ $\frac{1}{4}$

☐ $\frac{1}{2}$

☐ $\frac{1}{3}$

2. To compare fractions, what always needs to be the same?

☐ The denominator

☐ The numerator

☐ The fraction

3. Which set of fractions are in order from smallest to largest?

☐ $\frac{2}{3}, \frac{1}{3}, \frac{3}{3}$

☐ $\frac{2}{5}, \frac{1}{5}, \frac{3}{5}$

☐ $\frac{2}{10}, \frac{6}{10}, \frac{9}{10}$

4. Which of these fractions is smallest?

☐ $\frac{1}{3}$

☐ $\frac{2}{5}$

☐ $\frac{2}{3}$

5. Which of these fractions is the largest?

☐ $\frac{1}{4}$

☐ $\frac{1}{2}$

☐ $\frac{5}{9}$

6. Which set of fractions are in order from smallest to largest?

☐ $\frac{1}{5}, \frac{3}{10}, \frac{3}{3}$

☐ $\frac{2}{5}, \frac{1}{10}, \frac{2}{3}$

☐ $\frac{4}{4}, \frac{1}{2}, \frac{3}{3}$

7. Which of these fractions is the largest?

☐ $\frac{5}{8}$

☐ $\frac{3}{4}$

☐ $\frac{2}{3}$

8. Which of these fractions is the smallest?

☐ $\frac{1}{5}$

☐ 1

☐ $\frac{1}{7}$

9. What would the common denominator need to be if I were to compare these fractions? $\frac{2}{3}$, $\frac{1}{2}$ and $\frac{2}{5}$.

☐ 15

☐ 30

☐ 10

10. What would the common denominator need to be if I were to compare these fractions? $\frac{2}{4}$, $\frac{3}{6}$ and $\frac{1}{2}$.

☐ 6

☐ 4

☐ 12

Converting fractions to decimals

1. Which decimal is the same as $\frac{1}{2}$?

☐ 0.25

☐ 0.5

☐ 0.75

2. Which decimal is the same as $\frac{1}{4}$?

☐ 0.25

☐ 0.5

☐ 0.75

3. Which decimal is the same as $\frac{2}{10}$?

- ☐ 0.3
- ☐ 0.4
- ☐ 0.2

4. Which decimal is the same as $\frac{5}{20}$?

- ☐ 0.2
- ☐ 0.25
- ☐ 0.3

5. Which decimal is the same as $\frac{7}{10}$?

- ☐ 0.6
- ☐ 1
- ☐ 0.7

6. Which fraction is the same as 0.75?

- ☐ One quarter
- ☐ One half
- ☐ Three quarters

7. Which decimal is the same as one fifth?

- ☐ 0.2
- ☐ 0.3
- ☐ 0.4

8. Which decimal is the same as four fifths?

- ☐ 0.5
- ☐ 0.7
- ☐ 0.8

9. Which answer is incorrect?

- ☐ 0.2 is the same as $\frac{2}{10}$.
- ☐ 0.5 is the same as $\frac{6}{10}$.
- ☐ 0.9 is the same as $\frac{9}{10}$.

10. Which answer is correct?

- ☐ 0.25 is the same as one quarter.
- ☐ 0.4 is the same as one third.
- ☐ 1 is the same as one half.

Mental maths

1. Work out the answer. $45 + 46 = ?$

- ☐ 89
- ☐ 90
- ☐ 91

2.Kai buys a pair of shoes for £31 and a shirt for £67. How much does he spend altogether?

- ☐ £90
- ☐ £98
- ☐ £108

3.Work out the answer. $68 - 29 = ?$

- ☐ 29
- ☐ 31
- ☐ 39

4.A bike normally costs £260. Its price is reduced in a sale by £90. What is the sale price of the bike?

- ☐ £170
- ☐ £190
- ☐ £260

5.Work out the answer. $32 \times 30 = ?$

- ☐ 96
- ☐ 900
- ☐ 960

6. A box holds 22 apples. How many apples are there in 20 boxes?

- ☐ 440
- ☐ 420
- ☐ 400

7. Work out the answer. $490 \div 7 = ?$

- ☐ 7
- ☐ 60
- ☐ 70

8. For a school show, 660 chairs are arranged equally in 30 rows. How many chairs are in each row?

- ☐ 220
- ☐ 33
- ☐ 22

9. A function machine changes 49 to 98 and changes 26 to 52. What function is the machine carrying out on each number?

- ☐ Adding 49
- ☐ Adding 26
- ☐ Doubling the number

10.What number fills the gap? $35 \times ? = 105$

- ☐ 3
- ☐ 4
- ☐ 5

Money

1.What is the most valuable note that we use in the UK?

- ☐ £20
- ☐ £100
- ☐ £50

2.What is the most valuable coin in wide circulation that we use in the UK?

- ☐ £2
- ☐ £1
- ☐ £10

3.What is the least amount of coins you need to make 45p?

- ☐ 4
- ☐ 5
- ☐ 3

4.How many 20p pieces are there in £2.20

- ☐ 11
- ☐ 13
- ☐ 12

5.If you spend £10.50 and pay with three £5 notes, how much change will you receive?

- ☐ £4.50
- ☐ £5.50
- ☐ £3.50

6.How many pennies are there in £3.50p?

- ☐ 220
- ☐ 350
- ☐ 125

7.Look at this total - £3.45. What is the decimal point needed for?

- ☐ To separate the whole pounds from the pence.
- ☐ To tell you the total amount of pennies.
- ☐ To explain how much things cost.

8.What is 763 pence when converted into pounds and pence?

- ☐ £763.00
- ☐ £7.63
- ☐ £76.30

9. In a shop you can buy 1 tin of beans for 28p but you can buy 5 tins for £1.25. Which is better value for money?

- ☐ 5 tins for £1.25
- ☐ 1 tin for 28p
- ☐ They both have the same value.

10. If you save £1.25 every week, how much how much will you have saved after 5 weeks?

- ☐ £6.25
- ☐ £6.00
- ☐ £6.50

Multiplication and division

1. What number multiplied by 9 equals 72?

- ☐ 7
- ☐ 8
- ☐ 9

2. Which of these gives the smallest answer?

- ☐ 5 x 8
- ☐ 7 x 6
- ☐ 9 x 4

3.If one apple costs 17p, how much do 4 apples cost?

- ☐ 28p
- ☐ 34p
- ☐ 68p

4.What is 0.6 multiplied by 2000?

- ☐ 120
- ☐ 1200
- ☐ 6000

5.Tia used 7 boxes of eggs to make cakes for the school fair. Each box holds 6 eggs. How many eggs has she used?

- ☐ 42
- ☐ 40
- ☐ 36

6.Which of these division problems has the answer 8?

- ☐ $32 \div 4$
- ☐ $18 \div 2$
- ☐ $27 \div 3$

7. Which of these would give the biggest answer?

- ☐ 905 divided by 5
- ☐ 905 divided by 4
- ☐ 905 divided by 3

8. Ruby has 81 pound coins to share between 9 children. How many pound coins will each child get?

- ☐ 9
- ☐ 10
- ☐ 11

9. Dan has 75 eggs to pack into boxes. Each box can hold 6 eggs. How many boxes will Dan need?

- ☐ 11
- ☐ 12
- ☐ 13

10. What remainder do you get if you divide 182 by 30?

- ☐ 0
- ☐ 1
- ☐ 2

Negative numbers

1. Which number is highest?

- ☐ -1
- ☐ -4
- ☐ -6

2. Which number is closest to 0 on a number line?

- ☐ -10
- ☐ -14
- ☐ -15

3. Which number is a negative number?

- ☐ 1
- ☐ 4
- ☐ -2

4. Which number is the lowest?

- ☐ -2
- ☐ -5
- ☐ -1

5. Which numbers are in order from lowest to highest?

- ☐ 5, 9, 2
- ☐ 10, -1, 5
- ☐ -1, 4, 9

6. Which number is the highest?

- ☐ -8
- ☐ -10
- ☐ -7

7. What is the difference between -3 and -7?

- ☐ 4
- ☐ 5
- ☐ 6

8. If you add 4 to -9, what would the answer be?

- ☐ -6
- ☐ -5
- ☐ -3

9. Which is the lowest number?

- ☐ -14
- ☐ -25
- ☐ -20

10. Which number is higher than -2?

- ☐ -1
- ☐ -3
- ☐ -9

Number patterns

1. Is 302,689 an odd or an even number?

- ☐ Odd
- ☐ Even
- ☐ Neither

2. Which of these numbers is NOT a multiple of 5?

- ☐ 3775
- ☐ 4291
- ☐ 3830

3. Which number has both the factors 4 and 6?

- ☐ 12
- ☐ 18
- ☐ 20

4. Which of these is NOT a prime number?

- ☐ 13
- ☐ 17
- ☐ 21

5. How many square numbers are there below 30?

- ☐ 4
- ☐ 5
- ☐ 6

6. What is the square root of 64?

- ☐ 8
- ☐ 9
- ☐ 10

7. What is the next number in the sequence? 12, 16, 21, 27 ...

- ☐ 31
- ☐ 33
- ☐ 34

8. What is the next number in the sequence? 47, 38, 29, 20 ...?

- ☐ 11
- ☐ 12
- ☐ 13

9. What is the rule for this sequence? 12, 6, 3, 1.5

- ☐ halve the previous number
- ☐ subtract 6 from the previous number
- ☐ subtract 3 from the previous number

10. To make the next number in her sequence, Jo doubles a number and adds two. She has written 2, 6, 14. What is the next number she will write?

- ☐ 28
- ☐ 29
- ☐ 30

Operations

1. What does inverse mean in maths?

- ☐ The same as
- ☐ More than
- ☐ Opposite

2. How much more than 75 is 90?

- ☐ 15
- ☐ 25
- ☐ 35

3. How much less than 64 is 42?

- ☐ 26
- ☐ 24
- ☐ 22

4. How much change would I get from a £20 note if I spent £12.50?

- ☐ £7.50
- ☐ £8.50
- ☐ £10.50

5. What is the difference between 135 and 90?

- ☐ 45
- ☐ 55
- ☐ 65

6. What is the product of 8 and 4?

- ☐ 36
- ☐ 32
- ☐ 34

7. What is the remainder when you divide 37 by 9?

- ☐ 3
- ☐ 2
- ☐ 1

8.What is half of 350?

☐ 165

☐ 125

☐ 175

9.What is the inverse operation of x?

☐ \div

☐ +

☐ -

10.How many times does 7 fit into 49?

☐ 6

☐ 8

☐ 7

Place value headings

1.Which number is the same as nine thousand and one?

☐ 901

☐ 9001

☐ 9010

2. What is the value of the 8 in the number 82,916?

- ☐ 8 thousand
- ☐ 80 thousand
- ☐ 8 million

3. Which number is the same as fifty-two thousand and eight?

- ☐ 52,800
- ☐ 52,080
- ☐ 52,008

4. Which number is the same as two thousand, one hundred and one?

- ☐ 2,101
- ☐ 2,011
- ☐ 2,110

5. What is the value of the 6 in the number 7.062?

- ☐ 6 tens
- ☐ 6 hundreds
- ☐ 6 hundredths

6. What number is forty thousands, two units and three tens?

- ☐ 40,230
- ☐ 4,320
- ☐ 40,032

7. Which number is the same as five thousand and nine?

- ☐ 5,090
- ☐ 5,900
- ☐ 5,009

8. Which number is the same as sixty-two thousand, eight hundred and eight?

- ☐ 62,880
- ☐ 6,288
- ☐ 62,808

9. What is the value of the 4 in the number 64,231?

- ☐ 4 thousand
- ☐ 4 hundred
- ☐ 4 ten thousands

10. Which number has 3 units, 4 thousands and 2 tens?

- ☐ 3420
- ☐ 4203
- ☐ 4,023

Angles

1.How many degrees are there in one full turn?

- ☐ 180
- ☐ 90
- ☐ 360

2.Imagine you're facing north. You turn clockwise through 90 degrees. Which direction are you facing now?

- ☐ East
- ☐ South
- ☐ West

3.Imagine the capital letter M. What letter does it look like when it's rotated 180 degrees?

- ☐ E
- ☐ W
- ☐ M

4.An angle less than 90 degrees is

- ☐ obtuse
- ☐ acute
- ☐ reflex

5. Which of these is a reflex angle?

- ☐ 145 degrees
- ☐ 45 degrees
- ☐ 245 degrees

6. An angle between 90 degrees and 180 degrees is

- ☐ obtuse
- ☐ acute
- ☐ reflex

7. If two of the angles inside a triangle are 90 degrees and 50 degrees, what is the third angle?

- ☐ 90 degrees
- ☐ 40 degrees
- ☐ 140 degrees

8. Are the lines in the capital letter L parallel or perpendicular?

- ☐ Parallel
- ☐ Perpendicular
- ☐ Neither

9. Will two parallel lines ever cross?

- ☐ Yes
- ☐ No
- ☐ Depends on how they are drawn

10.Angles are measured using a

- ☐ compass
- ☐ ruler
- ☐ protractor

Measures

1.How many millimetres are in 50cm?

- ☐ 100
- ☐ 500
- ☐ 5000

2.Which unit of measurement would be best to use to calculate the length of a long car journey?

- ☐ centimetres
- ☐ millimetres
- ☐ kilometres

3.How many grams are in 5kg?

- ☐ 50g
- ☐ 500g
- ☐ 5000g

4.Jenny has 1 litre of fizzy drink. If she pours herself 250ml, how much of the drink will be left?

- ☐ 850ml
- ☐ 750ml
- ☐ 650ml

5.A small bottle of water holds 250ml. I have 4 bottles of water. How much liquid do I have altogether?

- ☐ 1 litre
- ☐ 850ml
- ☐ 1050ml

6.Which decimal is the same as 300ml?

- ☐ 0.03l
- ☐ 0.3l
- ☐ 3l

7.Matthew has 1 metre of wrapping paper. He uses 30cm to wrap a present. How much paper does he have left?

- ☐ 60cm
- ☐ 70cm
- ☐ 30cm

8. Julia is 1.1 metres tall. What is this in centimetres?

- ☐ 110cm
- ☐ 11cm
- ☐ 111cm

9. A small apple weighs 80g. If I have 5 apples, how much do they weigh altogether?

- ☐ 80g
- ☐ 800g
- ☐ 400g

10. How many millilitres are in three quarters of a litre?

- ☐ 500ml
- ☐ 750ml
- ☐ 1000ml

Symmetry

1. A line of symmetry is....?

- ☐ A line that is drawn through a shape so that both sides of the line look the same
- ☐ A line that goes all the way around the edge of a shape
- ☐ A line that divides a shape into quarters

2. Which shape has 4 lines of symmetry?

- ☐ A parallelogram
- ☐ A square
- ☐ An equilateral triangle

3. Which shape has 3 lines of symmetry?

- ☐ An equilateral triangle
- ☐ A scalene triangle
- ☐ An isosceles triangle

4. Which shape has 0 lines of symmetry?

- ☐ A rectangle
- ☐ A circle
- ☐ A parallelogram

5. Which shape has 2 lines of symmetry?

- ☐ A rectangle
- ☐ A circle
- ☐ A parallelogram

6. Which type of shapes can have lines of symmetry?

- ☐ 2D and 3D shapes
- ☐ 3D shapes
- ☐ 2D shapes

7. Which of these statements is false?

- ☐ A square has 4 lines of symmetry
- ☐ An equilateral triangle has 2 lines of symmetry
- ☐ A rectangle has 2 lines of symmetry

8. Which of these statements is true?

- ☐ An isosceles triangle has 1 line of symmetry
- ☐ A rectangle has 4 lines of symmetry
- ☐ A scalene triangle has 2 lines of symmetry

9. Which shape has 1 line of symmetry?

- ☐ A parallelogram
- ☐ A square
- ☐ An isosceles triangle

10. Which shape has infinite (many) lines of symmetry?

- ☐ A circle
- ☐ A parallelogram
- ☐ A rectangle

Time

1.What is time?

- ☐ A way of measuring how long things last or how long it takes to do something.
- ☐ A way of counting in units of 10.
- ☐ A number operation.

2.How many seconds are there in 2 minutes?

- ☐ 100
- ☐ 120
- ☐ 30

3.How many months are there in 3 years?

- ☐ 34
- ☐ 26
- ☐ 36

4.If a train leaves Newcastle at 1.30pm and arrives in Manchester at 3.02pm, how long does the journey last?

- ☐ 1 hour 22 minutes
- ☐ 1 hour 42 minutes
- ☐ 1 hour 32 minutes

5. Is 20:45 in the morning or evening?

- ☐ Evening
- ☐ Morning
- ☐ Neither

6. Convert 6.32pm into digital time.

- ☐ 20:32
- ☐ 19:32
- ☐ 18:32

7. What changes in a leap year?

- ☐ The number of days in February changes to 27.
- ☐ The number of days in February changes to 29.
- ☐ The number of months changes to 13.

8. What is the difference between analogue time and digital time?

- ☐ Analogue time lasts longer.
- ☐ Analogue time has two versions of time that uses the same numbers whereas digital time only has one version of any time.
- ☐ Digital time uses more minutes in an hour than analogue time.

9.What time is midday in analogue time?

- ☐ 12:00
- ☐ 12.00am
- ☐ 12.00pm

10.How many minutes are there in three quarters of an hour?

- ☐ 45
- ☐ 15
- ☐ 60

Frequency diagrams

1.22 children were asked whether they walked to school. 11 children said yes. What fraction of a pie chart would be taken up by the Yes segment?

- ☐ one quarter
- ☐ one third
- ☐ one half

2.In a survey of 18 children, 12 had brown eyes and 6 had blue eyes. What fraction of a pie chart would be taken up by the segment for blue eyes?

- ☐ one quarter
- ☐ one third
- ☐ one half

3. In one year, 300 Tourer bikes were sold. On a pictogram where 1 wheel represents 50 bikes, how many wheels would you put on the Tourer line?

- ☐ 1
- ☐ 6
- ☐ 300

4. In a pictogram of favourite sandwich fillings, a face represents 4 children. The line for jam shows 7.5 faces. How many children prefer jam fillings?

- ☐ 30
- ☐ 28
- ☐ 7.5

5. Which of these would be best at showing how the temperature of a pie changes over time when it is put in the oven?

- ☐ Pie chart
- ☐ Line graph
- ☐ Bar chart

6. 240 people were asked what they'd had for breakfast. A pie chart was drawn of the results. Toast took up one quarter of the chart. This shows

- ☐ 60 people had toast for breakfast
- ☐ 90 people had toast for breakfast
- ☐ most people like toast for breakfast

7.What is it NOT important to do when looking at information in a bar chart.

- ☐ Read the title and words on the chart to find out what it's telling you
- ☐ Measure the width of each of the bars
- ☐ Look carefully at the scale of the bar chart and read the height of each bar on the scale

8.Emily drew a bar chart to show the number of different birds she saw on holiday. There was no bar above the label Puffin. What does this mean?

- ☐ She didn't see any puffins on holiday
- ☐ No puffins exist in this country
- ☐ She had made a mistake

9.Lee made a bar chart to show how many bikes he sold each day. Each day had its own bar. We could find out the total number of bikes Lee sold by

- ☐ counting the number of bars
- ☐ finding the height of the tallest bar
- ☐ adding together the heights of all the bars in the chart

10.Tally marks are usually drawn in groups of

- ☐ 1
- ☐ 2
- ☐ 5

Mode, median, mean, range

1.Asam took 7 maths tests and got scores of 68, 71, 71, 84, 53, 62 and 67. What was Asam's mode score?

- ☐ 63
- ☐ 68
- ☐ 71

2.What is the mean average of these numbers: 18, 12, 10, 10, 25?

- ☐ 10
- ☐ 12
- ☐ 15

3.The mean average of three numbers is 8. Two of the numbers are 11 and 7. What is the third number?

- ☐ 6
- ☐ 7
- ☐ 8

4.The temperature in degrees Celsius over 4 days in July was 21, 21, 19 and 19. What was the mean temperature?

- ☐ 19 degrees Celsius
- ☐ 20 degrees Celsius
- ☐ 21 degrees Celsius

5.What is the mode of these numbers: 75, 78, 75, 71, 78, 25, 75, 29?

- ☐ 25
- ☐ 75
- ☐ 78

6.Five children have heights of 138 cm, 135 cm, 140 cm, 139 cm and 141 cm. What is the range of their heights?

- ☐ 6 cm
- ☐ 7 cm
- ☐ 8 cm.

7.What is the median of these numbers: 2.4, 2.8, 2.3, 2.9, 2.9?

- ☐ 2.3
- ☐ 2.8
- ☐ 2.9

8.The cost of five cakes is 28p, 19p, 45p, 45p, 15p. What is the median cost?

- ☐ 28p
- ☐ 15p
- ☐ 45p

9.What is the range of this group of numbers: 75, 39, 75, 71, 79, 55, 75, 59?

☐ 40

☐ 71

☐ 75

10.What is the median of these numbers: 10, 3, 6, 10, 4, 8?

☐ 6

☐ 7

☐ 8

Probability

1.Something that is unlikely to happen has a probability of between

☐ 0 and 0.5

☐ 0.5 and 1

☐ 1 and 2

2.Something that is likely to happen has a probability of between

☐ 0 and 0.5

☐ 0.5 and 1

☐ 1 and 2

3.What is the probability of rolling a 4 with a dice?

- ☐ one sixth
- ☐ one
- ☐ zero

4.What is the probability of getting 'heads' when you toss a coin?

- ☐ 1
- ☐ 0.5
- ☐ 0.2

5.What is the probability of rolling an odd number with a dice?

- ☐ one sixth
- ☐ one third
- ☐ one half

6.A coin is thrown three times. It lands on heads twice and tails once. What is the probability that the coin will land on tails with the next throw?

- ☐ 1
- ☐ one half
- ☐ 0

7.A bag contains 7 buttons. 3 of them are green. What is the probability of picking a green button from the bag?

- ☐ one seventh
- ☐ two sevenths
- ☐ three sevenths

8.Something that has an even chance of happening has a probability of

- ☐ 100%
- ☐ 50%
- ☐ 0%

9.A bag contains just 5 buttons, all of which are blue. What is the probability of picking a red button from the bag?

- ☐ 0
- ☐ 0.5
- ☐ 1

10.A bag contains 4 white buttons. How many black buttons must be added so there is an even chance of picking a white button?

- ☐ 4
- ☐ 8
- ☐ 0