Reeth and Gunnerside Schools

Exemplification for maths target sheet 10 – Mercury

Neptune

Add and subtract 2 fractions with the same denominator within one whole

(Hint: the denominator stays the same, just add/subtract the numerator)

$\frac{9}{20} - \frac{2}{20} =$ $\frac{8}{12} - \frac{3}{12} =$

$\frac{8}{20} + \frac{3}{20} =$ $\frac{11}{25} - \frac{7}{25} =$

$\frac{4}{15} + \frac{7}{15} =$ $\frac{4}{13} + \frac{5}{13} =$

$\frac{7}{11} - \frac{3}{11} =$ $\frac{13}{25} + \frac{6}{25} =$

Neptune

Add and subtract 2 fractions with the same denominator

(Hint: the denominator stays the same, just add/subtract the numerator)

$\frac{5}{4} + \frac{3}{4} =$ $\frac{15}{13} + \frac{8}{13} =$

$\frac{23}{6} - \frac{7}{6} =$ $\frac{21}{8} - \frac{7}{8} =$

$\frac{16}{9} + \frac{8}{9} =$ $\frac{31}{8} - \frac{11}{8} =$

$\frac{20}{7} - \frac{5}{7} =$ $\frac{17}{5} + \frac{9}{5} =$

Neptune

Starting at any given number count forwards and backwards in steps of any number, including through zero to include negative numbers

5, 3, 1, _____, _____, _____, _____, _____,

-9, -7, -5, _____, _____, _____, _____, _____,

7, 4, 1, _____, _____, _____, _____, _____,

-9, -5, -1, _____, _____, _____, _____, _____,

-16, -12, -8, _____, _____, _____, _____,

-5, -10, -15, _____, _____, _____, _____,

11, 6, 1, _____, _____, _____, _____, _____,

Neptune

Double any number with up to 1 decimal place

(Hint: double the whole number then double the decimal and add the numbers together.
For example,
double 24.6 =
double 24 = 48
double 0.6 = 1.2
48 + 1.2 = 49.2)

double 32.4 =	double 135.3 =
double 72.7 =	double 224.8 =
double 57.2 =	double 242.7 =
double 63.8 =	double 160.4 =
double 49.5 =	double 244.6 =

Neptune

Halve any number with up to 1 decimal place

(Hint: halve the whole number then halve the decimal number. For example,
halve 28.4
halve 28 = 24
halve 0.4 = 0.2
24 + 0.2 = 24.2)

halve 26.8 =	halve 35.4 =
halve 42.6 =	halve 41.8 =
halve 68.2 =	halve 25.2 =
halve 36.6 =	halve 33.5 =
halve 52.8 =	halve 45.7 =

Neptune

Recall quickly multiplication facts up to 12 x 12 and use them to multiply pairs of multiples of 10 and 100

30 x 70 =	70 x 600 =
40 x 200 =	40 x 700 =
60 x 30 =	900 x 80 =
70 x 80 =	60 x 600 =
300 x 90 =	11 x 700 =
80 x 400 =	12 x 400 =

Neptune

Use knowledge of place value and x facts to 12 x 12 to derive related multiplication and division facts involving decimals

0.8 x 7 =	0.5 x 0.7 =
0.4 x 6 =	0.7 x 12 =
0.3 x 9 =	0.6 x 8 =
0.5 x 12 =	1.1 x 6 =
0.8 x 9 =	1.2 x 0.4 =

Neptune

Know the test of divisibility to recognise multiples of 9

(Hint: a number is divisible by 9 if the sum of its digits is divisible by 9
918 = 9+1+8= 18÷9 = 2 so this number is divisible by 9)

Are the following numbers divisible by 9?

843
918
1278
6543
8546
6894