Name	
Form	
Teacher	

Maths
Homework Booklet
Year 7 Autumn 2
Set P,1,2,3

Topic	Score achieved	Sparx %
1. Place value	/21	%
2. Order integers	/14	%
3. Standard form	/16	%
4. Decimals to fractions and percentages	/20	%
5. Revision	/10	%
6. Percentages, decimals and fractions	/30	%

Question 1:   Write down the value of underlined digit in each of the numbers below

(a) 5<u>4</u>8   (b) <u>9</u>02   (c) 62<u>3</u>   (d) <u>3</u>841

(e) 87<u>9</u>02   (f) <u>4</u>8213   (g) 3<u>9</u>154   (h) 241<u>0</u>3

(i) <u>2</u>94875   (j) 9<u>4</u>0000   (k) <u>2</u>500000   (l) 49<u>7</u>0000000

(m) 0.<u>5</u>3   (n) 0.2<u>7</u>   (o) 1.39<u>5</u>   (p) 29.4<u>8</u>27

Question 2:   From each list of numbers, write down the largest number.

(a) 58, 39, 44, 62   (b) 294, 208, 198, 277   (c) 91, 103, 100, 99

(d) 807, 711, 1021, 888   (e) 5454, 5000, 899, 5118   (f) 30.3, 103, 9.98, 181

Sparx – Homework Answers

Week 2

Question 1: Arrange in order from smallest to largest

(a) 8, 5, 9, 10, 2

(b) 11, 20, 9, 15, 14, 3

(c) 40, 60, 20, 30, 90, 10

(d) 83, 18, 45, 37, 90, 21

(e) 140, 180, 210, 70, 300

(f) 605, 56, 566, 655, 506, 65, 555

(g) 2000, 375, 7100, 2900, 999, 400

Question 2: Arrange in order from smallest to largest

(a) 3, −5, 1, 0, −2, 4

(b) −1, 8, −5, 2, −9, −4, 3

(c) −1, −7, −2, 5, −6, 1

(d) 10, −7, −3, 5, −9, −2, −12

(e) 21, −3, 16, −19, −15, 23, −30

(f) −25, 35, 15, −5, 25, −45, 20

(g) 129, 101, −11, −111, 92, −91, 133, −29

Sparx – Homework Answers

Question 1:   Write each of the following numbers in standard form.

(a) 40000   (b) 2000000   (c) 8000000   (d) 7000

(e) 100000000   (f) 900   (g) 250000   (h) 1900

Question 2:   Write each of the following as ordinary numbers

(a) 3×10^4 (b) 9×10^3 (c) 6×10^6 (d) 2×10^{10}

(e) 5×10^7 (f) 1.2×10^2 (g) 2.9×10^5 (h) 8.4×10^8

Sparx – Homework Answers

Week 4

Question 1: Convert the following decimals to fractions, in their simplest forms

(a) 0.5

(b) 0.3

(c) 0.7

(d) 0.1

(e) 0.8

(f) 0.2

(g) 0.9

(h) 0.6

(i) 0.13

(j) 0.22

(k) 0.31

(l) 0.12

Question 2: Convert the following decimals to percentages

(a) 0.125

(b) 0.953

(c) 0.382

(d) 0.603

(e) 0.075

(f) 0.021

(g) 0.1425

(h) 0.9682

Sparx – Homework Answers

1   Find the input: $? \rightarrow \boxed{\div 6} \rightarrow \boxed{-10} \rightarrow -5$

2   Find the missing numbers

      $33, 29, \underline{\quad}, 21, \underline{\quad}, 13$

3   What is 10000 more than 374463 ?

4   Simplify $8 \div x$

5   Find the next 2 terms $30000, 3000, 300$

6   Which of the equations will produce a straight line graph : $y = \frac{x}{6} + 4$ or $y = 4 - \frac{6}{x}$?

7   Simplify $4x + 5x - 3x$

8   Find the value of $x - 6$, when $x = 3$

9   Calculate 35×875

10   Solve $x - 4 = 6$

Sparx – Homework Answers

Question 1: Convert each of the following percentages to decimals

(a) 53%   (b) 19%   (c) 25%   (d) 74%

(e) 65%   (f) 50%   (g) 70%   (h) 10%

Question 2: Write each of the following percentages as fractions.
If possible, simplify each answer.

(a) 3%   (b) 14%   (c) 66%   (d) 10%

(e) 17%   (f) 30%   (g) 50%   (h) 25%

Question 1: Convert the following fractions into percentages.

(a) $\dfrac{9}{50}$ (b) $\dfrac{3}{10}$ (c) $\dfrac{4}{5}$ (d) $\dfrac{12}{25}$

(e) $\dfrac{3}{4}$ (f) $\dfrac{9}{10}$ (g) $\dfrac{36}{50}$ (h) $\dfrac{13}{20}$

Question 2: Convert the following fractions to decimals.

(a) $\dfrac{1}{8}$ (b) $\dfrac{7}{20}$ (c) $\dfrac{5}{8}$ (d) $\dfrac{3}{20}$ (e) $\dfrac{3}{25}$ (f) $\dfrac{7}{8}$

Sparx – Homework Answers