Name	
Form	
Teacher	

Maths Homework Booklet Year 8 Spring 2 Set 4,5

Topic	Score achieved	Sparx %
1. Fractions, decimals and percentages	/12	%
2. Standard form	/8	%
3. Money calculations	/4	%
4. Conversion graphs	/11	%
5. Mixed Revision	/20	%
6. Mixed Revision	/20	%

Write these fractions as decimals

(a)
$$\frac{3}{10}$$

(b)
$$\frac{3}{5}$$

(a)
$$\frac{3}{10}$$
 (b) $\frac{3}{5}$ (c) $\frac{81}{100}$ (d) $\frac{9}{20}$ (e) $\frac{1}{8}$ (f) $\frac{19}{40}$

(d)
$$\frac{9}{20}$$

(e)
$$\frac{1}{8}$$

(f)
$$\frac{19}{40}$$

Write these percentages as fractions

- (b) 60% (c) 95% (d) 24% (e) 79% (f) 82%

Sparx – Homework Answers	

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

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

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}

Sparx – Homework Answers	



1) Nisha buys a drink for £2.10

She pays the exact amount with four coins.

List the coins that she used.

Zander buys a book for £10.01

He pays the exact amount with one note and four coins.

List the note and coins that he used.

3)

Me	enu
Tea	£2.80
Coffee	£3.35
Biscuit	90p
Scone	£3.10

Vicky buys 2 cups of tea and a scone.

How much will she have to pay?

4) Andrew buys these items at a coffee shop.

 Latte
 £3.75

 Wafer
 90p

 Scone
 £2.79

 Apple
 80p

Andrew pays with a £20 note and receives £10.76 change.

Did he receive the correct amount of change? Show your working.

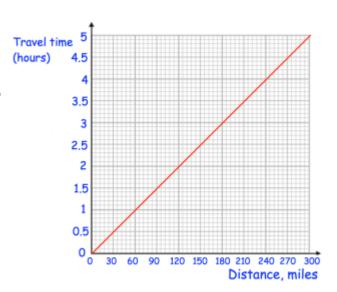
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Week 4



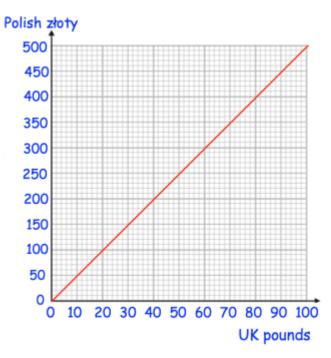
Question 1:

- (a) How long should a 120 mile journey take? (hours)
- (b) How long should a 270 mile journey take?
- (c) Carlos has spent 1 hour travelling. What distance is he expected to have travelled?
- (d) Rosie has spent 3.5 hours travelling. What distance is she expected to have travelled?



Question 2:

- (a) Change £20 into Polish złoty
- (b) Change £90 into Polish złoty
- (c) Change 300zł into UK pounds
- (d) Change 450zł into UK pounds
- (e) Change £50 into Polish złoty
- (f) Change £200 into Polish złoty
- (g) Change 800zł into UK pounds



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Week 5



4 Work out $\frac{7}{8} \times \frac{1}{2}$	8 What is the 5th cube number?	12 Calculate 1320÷3	16 Work out 100000 + 800 + 50 + 0.5	20 Expand $10(6-7x)$
3 Work out $2\times2+3\times7$	7 Solve $8x - 7 = 1$	11 Find the missing terms ?, 6, 15, ?, 33, 42	15 Solve $7x + 6 = 41$	19 Round 0.75 correct to 1 significant figure
2 Work out $8\times(1+2)\times 6$	6 Find the missing numbers 68,, 46, 35, 24,	10 Expand and simplify $7(3x+7)+3(3x-4)$	14 Simplify $3a - 2a + a$	18 Complete:4 cm = mm
$\int y = 38 - 2x^2$ Find the value of y when $x = 4$	5 Round 0.49529 correct to 1 significant figure	9 Find the missing terms ?, 18, 9, 0, ?, -18	13 Express 36 as a mixed number	17 Solve $2(5x+5) = 100$

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Week 6



$oldsymbol{1}$ Calculate 25% of $\pounds180$	$\sum_{x=2}^{y=rac{5x^2}{2}}$ Find the value of y when	Find the value of y when $egin{array}{c} 3 & ext{Simplify } 10^4 imes 10^3 imes 10^2 \end{array}$	4 Work out $\frac{8}{9} \times \frac{1}{4}$
S Round 0.41 correct to 2 significant figures	6 Work out 8×4+5×2	7 Complete:5 km = m	8 Find the missing terms -3,6,?,?,33,42
9 Calculate 40×65	10 Expand $6(7x-4)$	11 Solve $10(4x-4) = -160$	12 Find the missing terms 4, ?, 12, ?, 20, 24
13 Complete \$\sqrt{216} =	14 Calculate 95% of £220	15 Round 1.329 correct to 2 decimal places	16 Does the point $(-5, -26)$ lie on the line $y = 7x + 8$
17 Calculate 2000×100	18 Solve $3x - 6 = -15$	19 Simplify $r^3s^4 \times rs^4$	20 Estimate 563×306 18

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