

Name	
Form	
Teacher	

Maths

Homework Booklet

Year 8 Spring 2

Set P,1,2,3

Topic	Score achieved	Sparx %
1. Fractions, decimals and percentages	/24	%
2. Standard form	/24	%
3. Money calculations	/4	%
4. Conversion graphs	/11	%
5. Mixed Revision	/20	%
6. Mixed Revision	/20	%



Week 1

Write these fractions as decimals

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

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

(c) $\frac{81}{100}$

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

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

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

(g) $\frac{7}{8}$

(h) $\frac{13}{20}$

(i) $\frac{33}{50}$

(j) $\frac{19}{10}$

(k) $\frac{83}{20}$

(l) $\frac{123}{40}$

Write these percentages as fractions

(a) 70%

(b) 60%

(c) 95%

(d) 24%

(e) 79%

(f) 82%

(g) 37.5%

(h) 1.8%

(i) 11.5%

(j) 0.06%

(k) 160%

(l) 285%

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Week 2

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

- | | | | |
|----------------|--------------|-------------|----------------|
| (a) 40000 | (b) 2000000 | (c) 8000000 | (d) 7000 |
| (e) 1000000000 | (f) 900 | (g) 250000 | (h) 1900 |
| (i) 54000000 | (j) 11000000 | (k) 89000 | (l) 3600000000 |

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 |
| (i) 7.7×10^4 | (j) 3.51×10^5 | (k) 9.89×10^7 | (l) 1.27×10^9 |

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Week 3

- 1) Nisha buys a drink for £2.10

She pays the exact amount with four coins.

List the coins that she used.

- 2) 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)

Menu	
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.

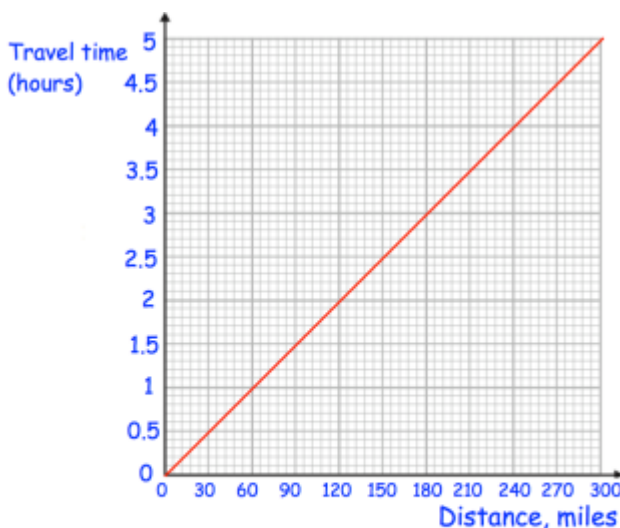
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Week 4

Question 1:

- (a) How long should a 120 mile journey take?
- (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

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

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Week 6

1 Calculate 25% of £180	2 $y = \frac{5x^2}{2}$ Find the value of y when $x = 2$	3 Simplify $10^4 \times 10^3 \times 10^2$	4 Work out $\frac{8}{9} \times \frac{1}{4}$
5 Round 0.41 correct to 2 significant figures	6 Work out $8 \times 4 + 5 \times 2$	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 $\sqrt[3]{216} =$	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 $r^3 s^4 \times r s^4$	20 Estimate $\frac{563 \times 306}{18}$

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