

Name	
Form	
Teacher	

Maths

Homework Booklet

Year 8 Autumn 1

Set P,1,2,3

Topic	Score achieved	Sparx %
1. Sparx	-	%
2. Sparx	-	%
3. Simplifying Ratio	/16	%
4. Sharing an amount by a ratio	/11	%
5. Direct proportion	/16	%
6. Multiplying Fractions	/12	%
7. Dividing Fractions	/20	%



Week 3

Simplify

1) $20 : 35$

2) $21 : 28$

3) $21 : 49$

4) $40 : 50$

5) $75 : 20$

6) $18 : 45$

7) $48 : 18$

8) $60 : 75$

Express in the form $1 : n$

1) $25 : 75$

2) $5 : 15$

3) $4 : 6$

4) $4 : 10$

5) $2 : 9$

6) $6 : 27$

7) $12 : 162$

8) $8 : 36$

Sparx – Homework Answers



Week 4

Divide

- 1) £24 in the ratio 1:2:3
- 2) £56 in the ratio 2:3:3
- 3) £360 in the ratio 2:3:4
- 4) £108 in the ratio 5:3:4
- 5) 350 g in the ratio 2:4:1
- 6) 5 kg in the ratio 4:9:1
- 7) £90 in the ratio 7:13:1
- 8) 1.8 m in the ratio 3:2:1

- 1) A bag of sweets is shared between Anne and Bobby in the ratio 3:5. If Anne gets 21 sweets how many sweets does Bobby get?
- 2) Craig and Dom share some money in the ratio 2:7. If Dom gets £250 more than Craig how much money did they share?
- 3) The number of 5p, 10p, and 20p coins in a jar are in the ratio 7 : 4 : 3. If there are 5p coins are worth 70p calculate the total value of the money in the jar.

Sparx – Homework Answers



Week 5

Using Exchange Rates

£1 = \$1.50 USA £1 = €1.40 £1=\$2.10 AUS

-
- | | |
|-----------------------------------|-----------------------------------|
| 1) Change \$84 AUS into GBP (£) | 2) Change £400 into USA (\$) |
| 3) Change \$75 USA into GBP (£) | 4) Change \$42 AUS into GBP (£) |
| 5) Change £20 into AUS (\$) | 6) Change £60 into Euros (€) |
| 7) Change £500 into Euros (€) | 8) Change £120 into USA (\$) |
| 9) Change \$1500 USA into GBP (£) | 10) Change \$630 AUS into GBP (£) |
| 11) Change €35 into GBP (£) | 12) Change €700 into GBP (£) |
| 13) Change £1000 into Euros (€) | 14) Change £600 into USA (\$) |
| 15) Change £280 into USA (\$) | 16) Change £300 into AUS (\$) |

Sparx – Homework Answers



Week 6

1) $\frac{1}{3} \times \frac{5}{6}$

2) $\frac{5}{8} \times \frac{1}{4}$

3) $\frac{3}{5} \times \frac{1}{10}$

4) $\frac{1}{3} \times \frac{5}{12}$

5) $\frac{2}{5} \times \frac{7}{15}$

6) $\frac{7}{10} \times \frac{7}{9}$

1) $\frac{2}{3} \times \frac{1}{4}$

2) $\frac{3}{5} \times \frac{2}{3}$

3) $\frac{3}{5} \times \frac{5}{6}$

4) $\frac{2}{3} \times \frac{3}{5}$

5) $\frac{8}{9} \times \frac{3}{4}$

6) $\frac{2}{9} \times \frac{3}{8}$

Sparx – Homework Answers



Week 7

1) $\frac{1}{3} \div \frac{1}{2}$

2) $\frac{1}{8} \div \frac{1}{3}$

3) $\frac{1}{5} \div \frac{2}{9}$

4) $\frac{1}{8} \div \frac{3}{5}$

5) $\frac{2}{11} \div \frac{1}{5}$

6) $\frac{3}{11} \div \frac{1}{2}$

1) $\frac{2}{3} \div \frac{1}{4}$

2) $\frac{3}{5} \div \frac{3}{4}$

3) $\frac{4}{5} \div \frac{4}{6}$

4) $\frac{1}{3} \div \frac{5}{6}$

5) $\frac{9}{10} \div \frac{3}{5}$

6) $\frac{4}{5} \div \frac{3}{10}$

Sparx – Homework Answers