

Name	
Form	
Teacher	

Maths

Homework Booklet

Year 9 Autumn 2

Set P,1,2,3

Topic	Score achieved	Sparx %
1. Factors and multiples	/10	%
2. Prime factors	/10	%
3. Money	/10	%
4. VAT	/10	%
5. Income tax	/10	%
6. Revision	/10	%



Week 1

- 1 List the factors of 60
- 2 List the factors of 28
- 3 List the factors of 36
- 4 List the factors of 77
- 5 List the factors of 77
- 6 List the first 8 multiples of 18
- 7 List the multiples of 7 between 43 and 76
- 8 What is the *6th* multiple of 12?
- 9 What is the *7th* multiple of 10?
- 10 What is the *3rd* multiple of 10?

Sparx – Homework Answers



Week 2

- 1 Express 390 as the product of prime factors
- 2 Express 336 as the product of prime factors
- 3 Express 24 as the product of prime factors
- 4 Express 90 as the product of prime factors
- 5 Express 168 as the product of prime factors
- 6 Express 280 as the product of prime factors
- 7 Express 18 as the product of prime factors
- 8 Express 42 as the product of prime factors
- 9 Express 16 as the product of prime factors
- 10 Express 108 as the product of prime factors

Sparx – Homework Answers



Week 3

- 1 Solomon buys 6 tickets that cost £8.99 each. Work out how much Solomon paid in total.
- 2 Billie buys some tickets that cost £13.99 each. She pays with three £20 notes and gets £4.04 change. How many tickets did Billie buy?
- 3 David has £697. Marcia has £862.
Work out how much more Marcia has.
- 4 Alli buys some tickets that cost £3.99 each. She pays with one £20 notes and gets £8.03 change. How many tickets did Alli buy?
- 5 Marek has £888. Joe has £643.
Work out how much more Marek has.
- 6 Mustab buys 9 tickets that cost £17.49 each. Work out how much Mustab paid in total.
- 7 Raheem wants to buy some tickets that cost £15.99 each. If He has 8, £10 notes how many tickets can he buy and how much change will be given?
- 8 Maria wants to buy some tickets that cost £5.99 each. If She has 3, £10 notes how many tickets can she buy and how much change will be given?
- 9 David buys 4 tickets that cost £7.99 each. Work out how much David paid in total.
- 10 Amanda has £987. Rajuia has £481.
Work out how much more Amanda has.

Answers

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Sparx – Homework Answers



Week 4

- 1 The price of a car (including VAT at 20%) is £2400. What was the price before the VAT was added?
- 2 A car is priced at £2800 + VAT (at 20%). What is the price including VAT ?
- 3 A car is priced at £8200 + VAT (at 20%). What is the price including VAT ?
- 4 A car is priced at £27000 + VAT (at 20%). What is the price including VAT ?
- 5 The price of a car (including VAT at 20%) is £19920. What was the price before the VAT was added?
- 6 A car is priced at £1400 + VAT (at 20%). What is the price including VAT ?
- 7 The price of a car (including VAT at 20%) is £17760. What was the price before the VAT was added?
- 8 The price of a car (including VAT at 20%) is £22080. What was the price before the VAT was added?
- 9 The price of a car (including VAT at 20%) is £19440. What was the price before the VAT was added?
- 10 The price of a car (including VAT at 20%) is £22320. What was the price before the VAT was added?

Answers

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Sparx – Homework Answers



Week 5

- 1 Income tax is charged at 20% for any earnings over £12570. If Mark has an annual salary of £27030 how much income tax will he pay?
- 2 Income tax is charged at 20% for any earnings over £12570. If Sky has an annual salary of £27300 how much income tax will she pay?
- 3 Income tax is charged at 20% for any earnings over £12570. If Frank has an annual salary of £21970 how much income tax will he pay?
- 4 Income tax is charged at 20% for any earnings over £12570. If Ranesh has an annual salary of £15550 how much income tax will he pay?
- 5 Income tax is charged at 20% for any earnings over £12570. If Dawid has an annual salary of £20040 how much income tax will he pay?
- 6 Income tax is charged at 20% for any earnings over £12570. If Natalie has an annual salary of £28930 how much income tax will she pay?
- 7 Income tax is charged at 20% for any earnings over £12570. If Connor has an annual salary of £28100 how much income tax will he pay?
- 8 Income tax is charged at 20% for any earnings over £12570. If Nicola has an annual salary of £27320 how much income tax will she pay?
- 9 Income tax is charged at 20% for any earnings over £12570. If Ronnie has an annual salary of £24810 how much income tax will he pay?
- 10 Income tax is charged at 20% for any earnings over £12570. If Nicola has an annual salary of £15550 how much income tax will she pay?

Answers

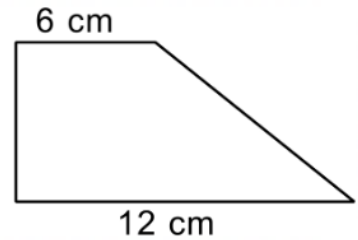
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Sparx – Homework Answers



Week 6

- 1 The point $(3, y)$ lies on the line $y = 5x + 2$. Find y
- 2 Solve $10x + 10 \geq 6x + 58$
- 3 Expand and simplify $3(5x + 6) + 2(7x - 2)$
- 4 The interior angle of a regular polygon is 165° . How many sides does the polygon have?
- 5 Calculate 80% of £10
- 6 Work out $\frac{7}{8} - \frac{5}{7}$
- 7 Calculate the area of the shape
- 8 Work out $(5 \times 10^6) \times (2.8 \times 10^3)$
- 9 Evaluate 5^{-2}
- 10 Evaluate $4^{\frac{1}{2}}$



Answers

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Sparx – Homework Answers