

- A** **Answer**
- $7006 - 6007 =$ 999
 - $(85 \times 3) + (7 \times 85) =$ 850
 - $1.7 \times 10^4 =$ 17000
 - Choose one from this list to fill the gap:
 $1\frac{3}{4}, 180\%, \frac{17}{10}$ $1.7 < 1\frac{3}{4} < \frac{45}{25}$
 - What is 7.5% of 4 as a decimal? 0.3
 - $3 \times (28 \div 2) =$ 42
 - $\sqrt{64} + 5^2 =$ 33
 - Approximate 3082 to the nearest 100. 3100
 - Estimate to the nearest ten.
 5.06×9.88 50
 - If $h = 13, k = 7$, find the value of $(h + k) \times (h - k)$ 120
 - $a + 5 = 0$ -5
so $a =$
 - Which three of this set of numbers are prime? {1, 2, 5, 9, 15, 21, 23} 2 5 23

- B** **Answer**
- $\pounds 15.05 \div 7 =$ $\pounds 2.15$
 - A camera costing $\pounds 85$ is reduced by $\pounds 17$. What % saving is this? 20%
 - Change 3.542 tonnes to kilograms. 3542kg
 - $3.2t - 1455kg =$ 1t 745kg
 $=$ 1.745t
 - If 14.11.2011 was a Thursday, what day was it on 22.11.2011? Friday
 - An aeroplane travels 1km in 5sec. Find its speed in kilometres per hour. 720km/h
 - The circumference of a circle is 314mm. Find the diameter.
 $\pi = 3.14$ 100mm
 - An isosceles triangle is drawn so that the largest angle equals the sum of the other two angles. How big is the largest angle? 90°
 - The word EXIT is painted on the inside of a glass door. Which letters look the same from the outside of the door? X I T
 - Three TV programmes last 25min, 55min and 1h 35min respectively. What is the total of all three programmes to the nearest hour? 3h

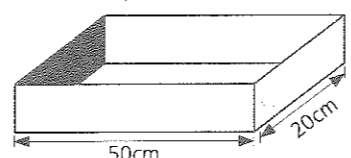
C **Answer**

Hamza owns a music shop. The supplier that Hamza uses to buy stock for his shop has increased its prices by 15%.

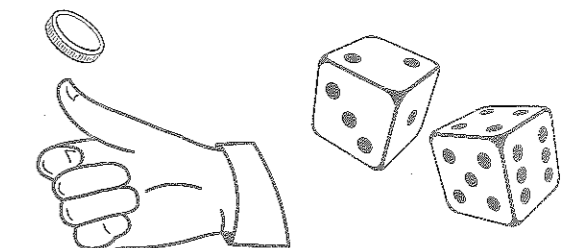
Musical instruments	Before 15% increase
Drum kit	$\pounds 600.00$
Piano	$\pounds 1400.00$
Electric guitar	$\pounds 1000.00$
Trumpet	$\pounds 300.00$
Violin	$\pounds 200.00$
Saxophone	$\pounds 400.00$
Accessories	
Speakers	$\pounds 150.00$
Channel mixer	$\pounds 350.00$
Plectrums (per ten)	$\pounds 2.50$
Sheet music	
Pupil book	$\pounds 5.00$
Sheet music album	$\pounds 18.00$

- How much must be added to the cost of an electric guitar? $\pounds 150$
 - What is the increase on a drum kit? $\pounds 90$
 - What is the cost of a saxophone, including the 15% price increase? $\pounds 460$
 - What will it cost Hamza to order three drum kits and two electric guitars, including the price increase? $\pounds 4370$
 - What is the cost of ordering 200 plectrums and 10 pupil books at the new increased price? $\pounds 115.00$
 - What is the new cost of two speakers and a channel mixer? $\pounds 747.50$
- When Hamza sells his goods he adds a further 20% profit to the price he paid to the supplier.
- What profit is added to the cost of a saxophone? $\pounds 92$
 - What is the selling price of a saxophone, including profit? $\pounds 552$
 - What profit does Hamza make by selling a violin? $\pounds 46$
 - What is the selling price of a piano? $\pounds 1932$
 - What is the profit on an electric guitar with a speaker? $\pounds 264.50$
 - What is the selling price of a sheet music album? $\pounds 24.84$

- A** **Answer**
- $1760 \times 11 =$ 19360
 - $155 \div (15 - 5) =$ 15 r 5
 - $2.05 \times 10^2 =$ 205
 - Write $\frac{49}{3}$ as a mixed number. $16\frac{1}{3}$
 - Write $\frac{3}{20}$ of 5 as a decimal. 0.75
 - Divide two-thirds by eight. $\frac{1}{12}$
 - $(6.3 \times 1.7) + (0.3 \times 6.3) =$ 12.6
 - Approximate 3.082 to one decimal place. 3.1
 - Estimate to the nearest ten.
 16.048×5.101 80
 - If $p = 2.5$ and $q = 2$, find the value of $\frac{p}{q}$ 1.25
 - $2x + 3x = 15$ so $x =$ 3
 - Write down the prime factors of 30 (i.e. those prime numbers which will divide exactly into 30). 2 3 5

- B** **Answer**
- $\pounds 3.45 \times 6 =$ $\pounds 20.70$
 - I buy a poster for $\pounds 2.60$ and sell it for $\pounds 3.20$. What is my profit? 60p
 - Change $2\frac{1}{2}$ km to metres. 2500m
 - $2.5l - 955ml =$ 1l 545ml
 $=$ 1.545l
 - If 23.06.2014 was a Monday, what date will it be on Thursday of the following week? 03.07.2014
 - A car travels 30km in 36min. Find its speed in kilometres per hour. 50km/h
 - Find the circumference of a circle with radius 10cm.
 $\pi = 3.14$ 62.8cm
 - When full, the tank holds 10000cm³.

a Find its depth. 10cm
b How many litres does it hold when full? 10l
 - Which letter of the word LAUGH has an axis of symmetry which is neither vertical nor horizontal? L
 - If two dozen pencils cost $\pounds 1.95$ find the cost of one pencil to the nearest penny. 8p

C **Answer**



Sairah and Jamie are playing a game with two dice and a coin. First they throw the dice and note down the numbers. Then they toss the coin. If the coin falls heads they add the two numbers from the dice. If the coin falls tails they multiply together the numbers from the dice. For example, throws of 3 and 2 on the dice will give a score of $3 + 2 = 5$ if the coin falls heads and $3 \times 2 = 6$ if the coin falls tails. The first two lines of the table show more examples. Now fill in the blanks on the other lines.

	Throw 1	Throw 2	Heads	Tails
	2	5	7	10
	1	1	2	1
1	6	1	7	6
2	4	2	6	8
3	3	6	9	18
4	5	4	9	20
5	2	6	8	12
6	6	6	12	36
7	5	5	10	25
8	2	2	4	4
9	4	4	8	16

- What is the largest score that can be made? 36
- What is the largest possible score if the coin falls heads? 12
- If they had another go and the score was 15, how did the coin fall, heads or tails? tails