

Outcome 1 - Basic, Direct & Indirect Proportion

Bronze examples

Examples... **To find the cost of one item...DIVIDE by the number of items!**

7 C.D.s cost £56.
How much for one C.D?
 $£56 \div 7 = £8$

5 apples cost £2.50.
How much for one apple?
 $£2.50 \div 5 = £0.50$ (50p)

Silver example

Examples...

4 washing machines cost £1600. How much for 9 washing machines?

Washing Machines	Cost
4	→ 1600
1	→ $1600 \div 4 = 400$
9	→ $400 \times 9 = £3600$

Find the cost of one item first!

Gold example

Examples...

It takes 2 men 6 hours to dig a hole. How long will it take 3 men?

Men	Hours
2	→ 6
1	→ $6 \times 2 = 12$
3	→ $12 \div 3 = 4$

Less men take MORE time!

Bronze Questions

For each of the following, find the cost per item...

- 1 6 C.D.s costing £54
- 2 8 footballs costing £96
- 3 5 tennis balls costing £4.50
- 4 3 books costing £3.75
- 5 9 cars costing £81 000
- 6 2 televisions costing £2200
- 7 7 cups of coffee costing £8.40
- 8 9 bananas costing £1.80
- 9 6 apples costing £3.00
- 10 10 pencils costing £2.00

Silver Questions

- 1 5 D.V.D.'s cost £40. How much for 7 D.V.D.'s?
- 2 7 beach balls cost £35. How much for 9 beach balls?
- 3 2 ice creams cost £3. How much for 5 ice creams?
- 4 3 cuddly toys cost £18. How much for 8 cuddly toys?
- 5 4 lava lamps cost £100. How much for 9 lava lamps?
- 6 6 bicycles cost £1800. How much for 8 bicycles?
- 7 8 cans of cola cost £7.20. How much for 3 cans of cola?
- 8 3 light bulbs cost £3.90. How much for 7 light bulbs?
- 9 4 hamburgers cost £5.60. How much for 7 hamburgers?
- 10 6 air fresheners cost £16.20. How much for 5 air fresheners?

Gold Questions

- 1 It takes 3 men 12 hours to shovel snow. How long would it take 4 men?
- 2 It takes 4 men 6 days to tile a roof. How long would it take 8 men?
- 3 5 tellers clear a queue in the bank in 6 minutes. How long would it take 10 tellers?
- 4 It takes 2 men 4 hours to paint a wall. How long would it take 8 men?
- 5 6 waiters take 5 minutes to clear tables. How long would it take 15 waiters?
- 6 It takes 4 stage hands 8 minutes to change a set. How long would it take 8 stage hands?
- 7 3 cleaners take 4 hours to clean a school. How long would it take 6 cleaners?
- 8 It takes 2 trucks 8 hours to clear debris from a building site. How long would it take 4 trucks?
- 9 It takes 2 men 16 hours to fix a road. How long would it take 8 men?
- 10 It takes 4 firemen 30 minutes to extinguish a blaze. How long would it take 6 firemen?

Bronze Answers

1. £9 per C.D.
2. £12 per football
3. £0.90 per tennis ball
4. £1.25 per book
5. £9000 per car
6. £1100 per television
7. £1.20 per coffee
8. £0.20 per banana
9. £0.50 per apple
10. £0.20 per pencil

Silver Answers

1. £56
2. £45
3. £7.50
4. £48
5. £225
6. £2400
7. £2.70
8. £9.10
9. £9.80
10. £13.50

Gold Answers

1. 9 hours
2. 3 days
3. 3 minutes
4. 1 hour
5. 2 minutes
6. 4 minutes
7. 2 hours
8. 4 hours
9. 4 hours
10. 20 minutes