

Word problems

Name _____

Date _____

Read each problem, set out the calculation or equation and write a complete answer.

1. Studio A charges a £48 booking fee plus £12 per hour. Studio B charges £20 plus £16 per hour. For what booking duration would the two studios charge the same total amount?

2. A theatre sells 90 tickets: adult tickets cost £9 each and concession tickets cost £6 each. The total ticket income is £666. How many adult tickets were sold?

3. A rectangular flowerbed measures 8 m by 5 m. A path of uniform width surrounds it on all four sides. The flowerbed and path together form a rectangle with an area of 70 m². What is the width of the path?

4. A 30 kg batch of animal feed contains 20% oats by mass. Only oats are added, and none of the original mixture is removed. How many kilograms of oats must be added for oats to make up 40% of the new mixture?

5. A coach travels 180 km and later returns along the same route. Its average speed on the return journey is 15 km/h lower, so the return journey takes one hour longer. What is the coach's average speed on the outward journey?
