

Word problems

Name _____

Date _____

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

1. A printing order is quoted at £480. A 20% discount is applied first, followed by a further 10% discount on the reduced price. Delivery costs £18 and is added afterwards. What is the total amount payable?

2. A course combines three marks, each scored out of 100. The first counts for 20% of the final mark, the second for 30% and the third for 50%. A student scores 70, 80 and 92 respectively. What is the student's final mark out of 100?

3. A rectangular crate has internal dimensions of 54 cm by 36 cm by 24 cm. Identical rectangular boxes measure 18 cm by 12 cm by 8 cm. They may be stacked with their edges parallel to the crate's edges. What is the greatest number of boxes that can fit completely inside?

4. A pottery workshop has 75 kg of clay and sets aside 12% for repairs. Each pot requires 0.45 kg of the remaining clay. What is the greatest number of complete pots that can be made?

5. A cyclist travels 24 km at an average speed of 12 km/h and another 36 km at 18 km/h. Between the two sections, the cyclist stops for 30 minutes. What is the average speed for the entire outing, including the stop? Give your answer in km/h to one decimal place.
