Multi-Digit Multiplication and Long Division

Grade 4 · 6 questions · step-by-step answers at the end

Name: Date: Score: / 6

USEFUL EQUATIONS

$36 \times 24 = 36 \times 20 + 36 \times 4$ dividend = divisor × quotient + remainder

remainder < divisor estimate first

Questions

Show your working in the space under each question.

1. EASY Work out 52×3.

2. EASY Work out $84 \div 6$.

3. MEDIUM Work out 45×12.

4. MEDIUM Work out $135 \div 5$.

5. HARD Work out 612 ÷ 6.

6. HARD 250 students travel in buses that each hold 48. How many buses are needed?

Step-by-step answers

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1. 150 + 6 = **156**.
2. 60 ÷ 6 = 10 and 24 ÷ 6 = 4: **14**.
3. 45 × 10 = 450 and 45 × 2 = 90: **540**.
4. 100 ÷ 5 = 20 and 35 ÷ 5 = 7: **27**.
5. 6 hundreds ÷ 6 = 1, 1 ten ÷ 6 = 0, 12 ÷ 6 = 2: **102**.
6. 48 × 5 = 240, leaving 10 students, so a sixth bus is needed: **6 buses**.