Year 9 Fractions and Decimals – Foundation

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Answers and worked solutions · 10 questions

A. Fraction and decimal skills

1. **terminating: $80 = 2^4 \times 5$, which has no prime factors other than 2 and 5**

49/80 is in its simplest form
$80 = 2^4 \times 5$
Only 2s and 5s: terminating

2. **terminating: $32 = 2^5$, which has no prime factors other than 2 and 5**

3/32 is in its simplest form
$32 = 2^5$
Only 2s and 5s: terminating

3. **14/15**

Improper fractions with denominator 15: 54/15 – 40/15
= 14/15

4. **1 11/18**

Improper fractions with denominator 18: 57/18 – 28/18
= 29/18 = 1 11/18

5. **6 2/3**

Improper fractions: 5/2 × 8/3
Cancel common factors, then multiply: = 20/3
= 6 2/3

6. **7/9**

Improper fractions: 7/2 ÷ 9/2
Multiply by the reciprocal: 7/2 × 2/9
= 7/9

7. **4**

Multiply both numbers by 100: 32 ÷ 8
= 4

8. **6**

Multiply both numbers by 10: 12 ÷ 2
= 6

9. **4/5**

1.25 = 5/4; the reciprocal is 1 ÷ 5/4 = 4/5

10. **−13/30**

Order of operations, ÷ before −: 3/2 ÷ 5/2 = 3/5
= −13/30