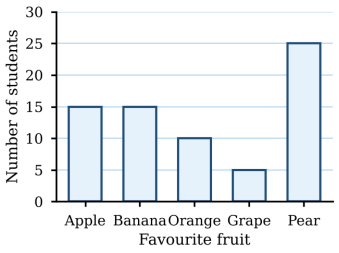
**Day 361** **B Tier 10-a-day**

**1** Solve $x - 20 = 5$

**2** The bar chart shows some information.
(a) How many more were there for Pear than for Grape?
(b) Work out the total of all five bars.




**3** Work out
(a) $\frac{4}{5} + \frac{5}{9}$
(b) $\frac{3}{4} - \frac{1}{10}$
Give each answer in its simplest form.

**4** Solve $3n + 7 = 2n + 6$

**5** Work out the value of this expression.
(Calculator)
$$\frac{6.4 + 2.5}{6.8 \times 9.7}$$
Give your answer correct to 3 significant figures.

**Day 361** **B Tier 10-a-day**

**6** The table shows the probabilities of a spinner landing on each colour.
(a) Work out the value of x.
(b) The spinner is used 200 times. How many times would you expect C?

| Colour | A | B | C | D |
|---|---|---|---|---|
| Probability | 0.25 | 0.2 | 0.2 | x |

**7** Triangle ABC is isosceles with AB = AC = 20 cm. (Calculator)
The base BC = 18 cm.
Work out the size of angle ABC.
Give your answer correct to 1 decimal place.

**8** (a) Zara scores 146 out of 400 in a test. Write this as a percentage.
(b) Write £1.25 as a percentage of £2.

**9** The equation $x^3 - 2x = 12$ has a solution between 2 and 3. (Calculator)
Use trial and improvement to find this solution.
Give your answer correct to 1 decimal place.

**10** A ladder 8 m long leans against a vertical wall. (Calculator)
The foot of the ladder is 5.1 m from the wall on horizontal ground.
Work out the angle between the ladder and the ground.
Give your answer correct to 1 decimal place.