

INDIGO B

- 1) $1\frac{1}{2} \times 3\frac{3}{5}$
- 2) If it takes 4 men 6 days to build a wall, how many days will it take 2 men to build 10 walls?
- 3) Robin baked a cake. He ate $\frac{1}{5}$ of it on Monday, $\frac{1}{4}$ of what was left on Tuesday. What fraction was left for Wednesday?
- 4) A charity raffle is aiming to raise £45. If each raffle ticket costs 70p, how many tickets will need to be sold to reach £45?
- 5) The area of a trapezium with parallel sides of length 5cm and 8cm (a and b), and height 11cm (h) is given by the formula

$$A = \frac{1}{2}(a + b)h$$

Find the area of the trapezium

- 6) A cake that cost 88p to make is sold for £1.10. What is the percentage profit?
- 7) *You may use a calculator for this question.*

An iPad costs £240 in the UK and \$399 in the US. Given that £1 = \$1.60, where is the iPad cheaper?

- 8) Alex Erlich and Paneth Faracas shared an opening rally of 2hrs and 12mins during a table tennis match at the 1936 World Games. Each player hit around 45 shots per min.
Which of the following is closest to the total number of shots played in the rally? You must show all of your working out.
A: 200 B: 2000 C: 8000 D: 12000 E: 20 000