

Push Tasks — Answers



1. This bar shows $\frac{29}{8}$. Explain how it shows that $\frac{29}{8} = 3\frac{5}{8}$.



Solution

$$29 \div 8 = 3 \text{ r } 5, \text{ so} \\ \frac{29}{8} = 3\frac{5}{8}.$$

3. Which is greater: $\frac{23}{6}$ or $3\frac{4}{5}$?
Show enough working to justify.

Solution

$$\frac{23}{6} = 3\frac{5}{6} \approx 3.83$$

$$3\frac{4}{5} = 3.8, \text{ so } \frac{23}{6} \text{ is greater.}$$

2. A student says $4\frac{2}{3} = \frac{14}{3}$. Are they correct? Explain.

Solution

$$4 \times 3 + 2 = 14$$

$$\text{Yes, } 4\frac{2}{3} = \frac{14}{3} \text{ is correct.}$$

4. Write $\frac{35}{4}$ as a mixed number, then place it between two whole numbers.

Solution

$$35 \div 4 = 8 \text{ r } 3: \frac{35}{4} = 8\frac{3}{4}, \text{ between } 8, 9.$$

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5. A ribbon is $\frac{17}{3}$ m long. Write this as a mixed number.

Solution

$$17 \div 3 = 5 \text{ remainder } 2$$
$$\frac{17}{3} = 5\frac{2}{3} \text{ m}$$

7. Explain why $\frac{n}{4} = 2\frac{1}{4}$ gives $n = 9$.

Solution

$$2\frac{1}{4} = \frac{9}{4}$$

so $\frac{n}{4} = \frac{9}{4}$ means $n = 9$.

6. A tank holds $2\frac{3}{4}$ L. Write this as an improper fraction of litres.

Solution

$$2 \times 4 + 3 = 11$$
$$2\frac{3}{4} = \frac{11}{4} \text{ L}$$

8. Which does not belong: $\frac{10}{3}$, $3\frac{1}{3}$, $\frac{13}{4}$, $\frac{20}{6}$? Explain.

Solution

$$3\frac{1}{3} = 20/6 = 10/3 \text{ (all equal);}$$
$$13/4 = 3.25 \text{ differs.}$$