

- Polygons
- Similar Triangles

FRACTIONS

Find the exact value of each of the following without using a calculator. All working must be shown. Express your answers in the lowest terms.

1. June 89

a.  $\left(4\frac{4}{5} \div 2\frac{2}{3}\right) - \left(1\frac{1}{3}\right)^2$  [5 marks]

b. Write your answer to part a as a decimal to two significant figures [2 marks]

2. Jan 89

$$\frac{5\frac{1}{4} - 2\frac{1}{3}}{2\frac{1}{2}}$$
 [4 marks]

3. Jan 90

$$\frac{3\frac{1}{3} \times 1\frac{1}{5}}{3\frac{1}{3} - 1\frac{1}{5}}$$
 [4 marks]

4. June 90

$$\frac{4\frac{1}{3} - 1\frac{5}{6}}{1\frac{3}{7} \times 1\frac{2}{3}}$$
 [3 marks]

5. Jan 91

$$\frac{2\frac{1}{3} + \frac{3}{7}}{2\frac{1}{3} \times 1\frac{3}{7}}$$
 [5 marks]

6. June 91

$$\left(2\frac{1}{3} - 1\frac{5}{6}\right) \div 1\frac{1}{3}$$
 [4 marks]

7. June 92

$$\frac{5\frac{2}{7} + 3\frac{5}{7}}{4 - 2\frac{4}{5}}$$
 [4 marks]

8. June 93

$$\left(3\frac{2}{7} + 1\frac{2}{3}\right) \div 1\frac{1}{7}$$
 [4 marks]

9. Jan 93

$$\frac{5\frac{4}{6} - 4\frac{2}{3}}{3\frac{2}{3}}$$
 [3 marks]

10. Jan 95

$$\frac{\frac{1}{5} \times \frac{3}{10}}{2\frac{1}{2}}$$
 [2 marks]

11. June 95

$$\left(3\frac{3}{5} \times 1\frac{2}{3}\right) - 2\frac{2}{7}$$
 [3 marks]

12. Re-sit 95

$$\frac{2\frac{2}{3} - 1\frac{5}{6}}{\frac{2}{3}}$$
 [3 marks]

13. Jan 96

$$\frac{1}{7} + \left(\frac{2}{3} \div \frac{11}{12}\right)$$
 [3 marks]

14. Jun 96

$$\frac{2\frac{1}{3} - 1\frac{1}{2}}{1\frac{5}{6}}$$
 [2 marks]

15. Jan 97

$$\left(1\frac{1}{7} + 2\frac{2}{3}\right) \div 2\frac{2}{3}$$
 [3 marks]