

# Answers: Introduction to numerical fractions

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## Summary

Answers to questions relating to the guide on the introduction to numerical fractions.

*These are the answers to [Questions: Introduction to numerical fractions](#).*

**Please attempt the questions before reading these answers!**

## Q1

- 1.1.  $\frac{2}{5}$
- 1.2.  $\frac{7}{8}$
- 1.3.  $\frac{3}{4}$
- 1.4.  $\frac{1}{6}$
- 1.5.  $1\frac{1}{4}$  or  $\frac{5}{4}$
- 1.6.  $\frac{6}{10}$  or  $\frac{3}{5}$
- 1.7.  $1\frac{1}{3}$  or  $\frac{4}{3}$
- 1.8.  $\frac{9}{16}$
- 1.9.  $2\frac{3}{4}$  or  $\frac{11}{4}$
- 1.10.  $\frac{11}{20}$

## Q2

- 2.1.  $\frac{3}{2}$

- 2.2.  $-\frac{8}{3}$
- 2.3.  $\frac{13}{4}$
- 2.4.  $-\frac{27}{5}$
- 2.5.  $\frac{31}{7}$
- 2.6.  $\frac{37}{6}$
- 2.7.  $-\frac{43}{5}$
- 2.8.  $\frac{92}{9}$
- 2.9.  $-\frac{82}{11}$
- 2.10.  $\frac{51}{4}$

### Q3

- 3.1.  $2\frac{1}{2}$
- 3.2.  $-1\frac{3}{4}$
- 3.3.  $3\frac{1}{3}$
- 3.4.  $-1\frac{4}{7}$
- 3.5.  $2$
- 3.6.  $-4\frac{1}{6}$
- 3.7.  $3\frac{4}{9}$
- 3.8.  $4\frac{6}{11}$
- 3.9.  $-8$
- 3.10.  $-7\frac{9}{13}$

### Q4

- 4.1.  $3$

- 4.2. 9
- 4.3. 15
- 4.4. 10
- 4.5.  $-15$
- 4.6.  $-4$
- 4.7. 32
- 4.8. 24
- 4.9.  $-9$
- 4.10. 100
- 4.11.  $-24$
- 4.12. 55
- 4.13.  $-9$
- 4.14. 36
- 4.15. 42

## Q5

- 5.1.  $\frac{1}{2}$
- 5.2.  $\frac{1}{3}$
- 5.3.  $\frac{3}{5}$
- 5.4.  $\frac{3}{4}$
- 5.5.  $\frac{3}{5}$
- 5.6.  $\frac{1}{3}$
- 5.7.  $\frac{2}{3}$
- 5.8.  $\frac{5}{7}$
- 5.9.  $\frac{2}{3}$
- 5.10.  $\frac{5}{6}$

## Q6

$$6.1. \quad \frac{6}{4} = 1\frac{2}{4} = 1\frac{1}{2}$$

$$6.2. \quad 2\frac{2}{8} = \frac{18}{8} = \frac{9}{4}$$

$$6.3. \quad \frac{12}{10} = 1\frac{2}{10} = 1\frac{1}{5}$$

$$6.4. \quad -\frac{15}{9} = -1\frac{6}{9} = -1\frac{2}{3}$$

$$6.5. \quad 3\frac{4}{6} = \frac{22}{6} = \frac{11}{3}$$

$$6.6. \quad -1\frac{6}{8} = -\frac{14}{8} = -\frac{7}{4}$$

$$6.7. \quad \frac{20}{12} = 1\frac{8}{12} = 1\frac{2}{3}$$

$$6.8. \quad \frac{30}{25} = 1\frac{5}{25} = 1\frac{1}{5}$$

$$6.9. \quad 5\frac{10}{15} = \frac{85}{15} = \frac{17}{3}$$

$$6.10. \quad -\frac{45}{20} = -2\frac{5}{20} = -2\frac{1}{4}$$

$$6.11. \quad 4\frac{8}{10} = \frac{48}{10} = \frac{24}{5}$$

$$6.12. \quad \frac{50}{30} = 1\frac{20}{30} = 1\frac{2}{3}$$

$$6.13. \quad \frac{75}{-50} = -\frac{75}{50} = -1\frac{25}{50} = -1\frac{1}{2}$$

$$6.14. \quad 6\frac{12}{16} = \frac{108}{16} = \frac{27}{4}$$

$$6.15. \quad -2\frac{14}{21} = -\frac{56}{21} = -\frac{8}{3}$$

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## Version history and licensing

v1.0: initial version created 12/25 by Donald Campbell as part of a University of St Andrews VIP project.

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