

Name: _____

Exam Style Questions

Adding Fractions



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 133



1. Work out, as a simplified fraction.

$$\frac{3}{4} + \frac{1}{12} \quad \frac{9}{12} + \frac{1}{12} = \frac{10}{12} = \frac{5}{6}$$

$$\frac{5}{6}$$

(2)

2. Work out, as a simplified fraction.

$$\frac{3}{5} - \frac{2}{7}$$

$$\frac{21}{35} - \frac{10}{35} = \frac{11}{35}$$

$$\frac{11}{35}$$

(2)

3. Work out, as a simplified fraction.

$$\frac{5}{6} - \frac{1}{2}$$

$$\frac{5}{6} - \frac{3}{6} = \frac{2}{6} = \frac{1}{3}$$

$$\frac{1}{3}$$

(2)

4. Work out, as a simplified fraction.

$$\frac{3}{4} - \frac{2}{5}$$

$$\frac{15}{20} - \frac{8}{20} = \frac{7}{20}$$

$$\frac{7}{20}$$

(2)

5. Work out, as a simplified fraction.

$$\frac{3}{4} + \frac{2}{9}$$

$$\frac{27}{36} + \frac{8}{36} = \frac{35}{36}$$

$$\frac{35}{36}$$

(2)

6. Work out, as a mixed number.

$$\frac{7}{11} + \frac{2}{3}$$

$$\frac{21}{33} + \frac{22}{33} = \frac{43}{33}$$

$$1\frac{10}{33}$$

(2)

7. Work out

$$1\frac{2}{5} + 2\frac{1}{2}$$

Give your answer as a mixed number.

$$\frac{7}{5} + \frac{5}{2}$$

$$\frac{14}{10} + \frac{25}{10} = \frac{39}{10}$$

$$3\frac{9}{10}$$

.....
(3)

8. Work out

$$4\frac{1}{3} - 3\frac{4}{9}$$

Give your answer as a fraction.

$$\frac{13}{3} - \frac{31}{9}$$

$$\frac{39}{9} - \frac{31}{9} = \frac{8}{9}$$

$$\frac{8}{9}$$

.....
(3)

9. In a bag there are red, green and purple counters.

$\frac{3}{8}$ of the counters are red.

$\frac{1}{6}$ of the counters are green.

What fraction of the counters are purple?

$$\frac{3}{8} + \frac{1}{6} = \frac{9}{24} + \frac{4}{24} = \frac{13}{24}$$

$$1 - \frac{13}{24} = \frac{24}{24} - \frac{13}{24} = \frac{11}{24}$$

.....
 $\frac{11}{24}$
(3)

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10. Matthew is training for a race.
He runs 3 days in one week.

Matthew runs $1\frac{1}{2}$ miles on Monday.

Then he runs $1\frac{2}{3}$ miles on Thursday.

Finally he runs $2\frac{1}{5}$ miles on Sunday.

Work out how far Matthew ran in total.

$$1\frac{1}{2} + 1\frac{2}{3} + 2\frac{1}{5}$$

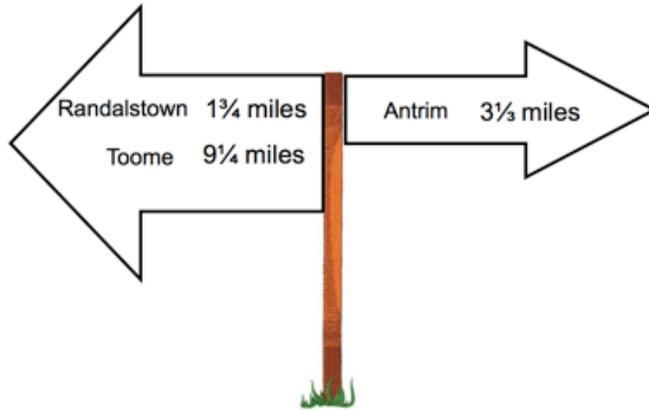
$$\frac{3}{2} + \frac{5}{3} + \frac{11}{5}$$

$$\frac{45}{30} + \frac{50}{30} + \frac{66}{30} = \frac{161}{30}$$

$$5\frac{11}{30} \text{ miles}$$

.....
(3)

11. Martin is walking from Antrim to Randalstown.



- (a) Work out the distance from Antrim to Randalstown.

$$\begin{aligned} &1\frac{3}{4} + 3\frac{1}{3} \\ &\frac{7}{4} + \frac{10}{3} \\ &\frac{21}{12} + \frac{40}{12} = \frac{61}{12} \end{aligned} \quad \begin{array}{l} 5\frac{1}{12} \text{ miles} \\ (3) \end{array}$$

- (b) Work out the distance from Randalstown to Toome.

$$\begin{aligned} &9\frac{1}{4} - 1\frac{3}{4} \\ &\frac{37}{4} - \frac{7}{4} = \frac{30}{4} = \frac{15}{2} \end{aligned} \quad \begin{array}{l} 7\frac{1}{2} \text{ miles} \\ (3) \end{array}$$

14. Work out

$$\frac{2\pi}{9} + \frac{\pi}{4}$$

Give your answer as a fraction.

$$\frac{2\pi}{9} + \frac{\pi}{4}$$
$$\frac{8\pi}{36} + \frac{9\pi}{36} = \frac{17\pi}{36}$$

$$\frac{17\pi}{36}$$

(2)