Corbett maths

Fractions: Simplifying

Video 146 on www.corbettmaths.com

Examples

Workout



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Question 1: Simplify fully

(a) $\frac{2}{4}$ (b) $\frac{6}{9}$ (c) $\frac{6}{8}$ (d) $\frac{5}{15}$ (e) $\frac{4}{6}$ (f) $\frac{9}{12}$

(g) $\frac{10}{15}$ (h) $\frac{9}{15}$ (i) $\frac{8}{12}$ (j) $\frac{10}{14}$ (k) $\frac{15}{35}$ (l) $\frac{6}{21}$

(m) $\frac{18}{22}$ (n) $\frac{16}{20}$ (o) $\frac{9}{24}$ (p) $\frac{20}{30}$ (q) $\frac{8}{28}$ (r) $\frac{300}{500}$

Question 2: Cancel down each fraction to its simplest form

(a) $\frac{14}{35}$ (b) $\frac{8}{64}$ (c) $\frac{18}{24}$ (d) $\frac{75}{100}$ (e) $\frac{24}{80}$ (f) $\frac{6}{42}$

(g) $\frac{36}{66}$ (h) $\frac{18}{45}$ (i) $\frac{70}{120}$ (j) $\frac{49}{56}$ (k) $\frac{22}{110}$ (l) $\frac{18}{72}$

(m) $\frac{60}{140}$ (n) $\frac{45}{135}$ (o) $\frac{40}{360}$ (p) $\frac{64}{100}$ (q) $\frac{85}{35}$ (r) $\frac{48}{36}$

Question 3: Simplify fully

(a) $\frac{145}{225}$ (b) $\frac{190}{570}$ (c) $\frac{200}{288}$ (d) $\frac{230}{495}$ (e) $\frac{54}{333}$ (f) $\frac{96}{123}$

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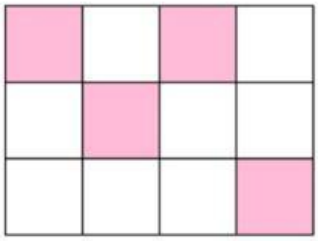
Question 1: Which fractions below are equivalent to $\frac{2}{3}$?

$$\frac{4}{6} \quad \frac{6}{8} \quad \frac{8}{12} \quad \frac{9}{12} \quad \frac{10}{15}$$

Question 2: James says that $\frac{1}{3}$ of the grid is shaded

Cara says $\frac{4}{12}$ of the grid is shaded.

Explain how they are both correct.



Question 3: Given that $5 \times 13 = 65$ and $7 \times 13 = 91$ simplify fully $\frac{65}{91}$

Question 4: Freddy has 40 cupcakes.
20 of the cupcakes are chocolate.
10 of the cupcakes are lemon.
8 of the cupcakes are strawberry.
The rest of the cupcakes of vanilla.



(a) What fraction of the cupcakes are chocolate?
Give the fraction in its simplest form.

(b) What fraction of the cupcakes are lemon?
Give the fraction in its simplest form.

(c) What fraction of the cupcakes are strawberry?
Give the fraction in its simplest form.

(d) What fraction of the cupcakes are vanilla?
Give the fraction in its simplest form.

Answers



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Question 5: There are 200 students in a primary school.
80 students wear glasses.
What fraction of the students wear glasses?
Give the fraction in its simplest form.

Question 6: Sarah has £240 and she gives her mum £80.
What fraction of the money does Sarah have left?
Give the fraction in its simplest form.

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