MathALEA

EX 1   Simplifier le plus possible les fractions suivantes.

4C24

1. $\dfrac{6}{30}$

2. $\dfrac{10}{18}$

3. $\dfrac{4}{30}$

4. $\dfrac{28}{14}$

5. $\dfrac{25}{35}$

6. $\dfrac{27}{15}$

EX 2   Simplifier le plus possible les fractions suivantes.

4C24

1. $\dfrac{30}{36}$

2. $\dfrac{70}{60}$

3. $\dfrac{30}{135}$

4. $\dfrac{490}{20}$

5. $\dfrac{225}{175}$

6. $\dfrac{36}{27}$

EX 3   Simplifier le plus possible les fractions suivantes.

4C24

1. $\dfrac{90}{630}$

2. $\dfrac{40}{980}$

3. $\dfrac{60}{180}$

4. $\dfrac{54}{36}$

5. $\dfrac{54}{126}$

6. $\dfrac{150}{60}$

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Corrections

EX 1

1. $\dfrac{6}{30} = \dfrac{2 \times \cancel{3}}{2 \times \cancel{3} \times 5} = \dfrac{2}{10}$

2. $\dfrac{10}{18} = \dfrac{\cancel{2} \times 5}{\cancel{2} \times 3 \times 3} = \dfrac{5}{9}$

3. $\dfrac{4}{30} = \dfrac{\cancel{2} \times 2}{\cancel{2} \times 3 \times 5} = \dfrac{2}{15}$

4. $\dfrac{28}{14} = \dfrac{\cancel{2} \times 2 \times 7}{\cancel{2} \times 7} = \dfrac{14}{7}$

5. $\dfrac{25}{35} = \dfrac{\cancel{5} \times 5}{\cancel{5} \times 7} = \dfrac{5}{7}$

6. $\dfrac{27}{15} = \dfrac{\cancel{3} \times 3 \times 3}{\cancel{3} \times 5} = \dfrac{9}{5}$

EX 2

1. $\dfrac{30}{36} = \dfrac{\cancel{2} \times \cancel{3} \times 5}{\cancel{2} \times 2 \times \cancel{3} \times 3} = \dfrac{5}{6}$

2. $\dfrac{70}{60} = \dfrac{\cancel{2} \times \cancel{5} \times 7}{\cancel{2} \times 2 \times 3 \times \cancel{5}} = \dfrac{7}{6}$

3. $\dfrac{30}{135} = \dfrac{2 \times \cancel{3} \times \cancel{5}}{\cancel{3} \times 3 \times 3 \times \cancel{5}} = \dfrac{2}{9}$

4. $\dfrac{490}{20} = \dfrac{\cancel{2} \times \cancel{5} \times 7 \times 7}{\cancel{2} \times 2 \times \cancel{5}} = \dfrac{49}{2}$

5. $\dfrac{225}{175} = \dfrac{3 \times 3 \times \cancel{5} \times \cancel{5}}{\cancel{5} \times \cancel{5} \times 7} = \dfrac{9}{7}$

6. $\dfrac{36}{27} = \dfrac{2 \times 2 \times \cancel{3} \times \cancel{3}}{\cancel{3} \times \cancel{3} \times 3} = \dfrac{4}{3}$

EX 3

1. $\dfrac{90}{630} = \dfrac{\cancel{2} \times \cancel{3} \times \cancel{3} \times 5}{\cancel{2} \times \cancel{3} \times \cancel{3} \times 5 \times 7} = \dfrac{5}{35}$

2. $\dfrac{40}{980} = \dfrac{\cancel{2} \times \cancel{2} \times 2 \times \cancel{5}}{\cancel{2} \times \cancel{2} \times \cancel{5} \times 7 \times 7} = \dfrac{2}{49}$

3. $\dfrac{60}{180} = \dfrac{\cancel{2} \times 2 \times \cancel{3} \times \cancel{5}}{\cancel{2} \times 2 \times \cancel{3} \times 3 \times \cancel{5}} = \dfrac{2}{6}$

4. $\dfrac{54}{36} = \dfrac{\cancel{2} \times \cancel{3} \times \cancel{3} \times 3}{\cancel{2} \times 2 \times \cancel{3} \times \cancel{3}} = \dfrac{3}{2}$

5. $\dfrac{54}{126} = \dfrac{\cancel{2} \times \cancel{3} \times \cancel{3} \times 3}{\cancel{2} \times \cancel{3} \times \cancel{3} \times 7} = \dfrac{3}{7}$

6. $\dfrac{150}{60} = \dfrac{\cancel{2} \times \cancel{3} \times \cancel{5} \times 5}{\cancel{2} \times 2 \times \cancel{3} \times \cancel{5}} = \dfrac{5}{2}$