CREST Olympiads

#CRESTInnovator

CREST Mathematics Olympiad (CMO)

Worksheet *for*

Class 4

Topic

Fractions

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Worksheet on Fractions

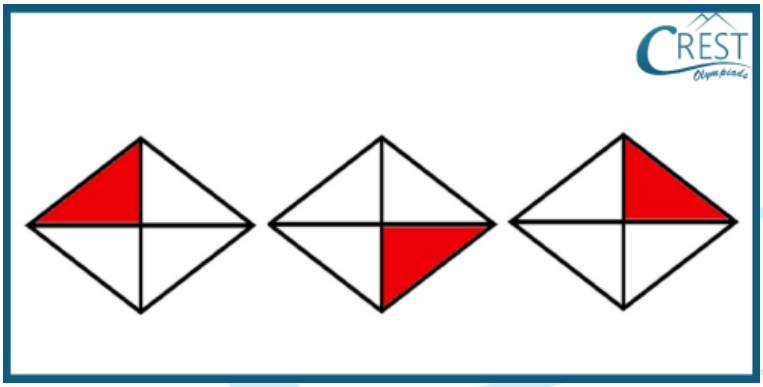
1. **Which of the following is the lowest form of fraction 119/91?**

   a. $1\frac{1}{13}$
   b. $1\frac{2}{13}$
   c. $1\frac{4}{13}$
   d. 13/17

2. **What should be added to 5/11 to get $2\frac{3}{11}$?**

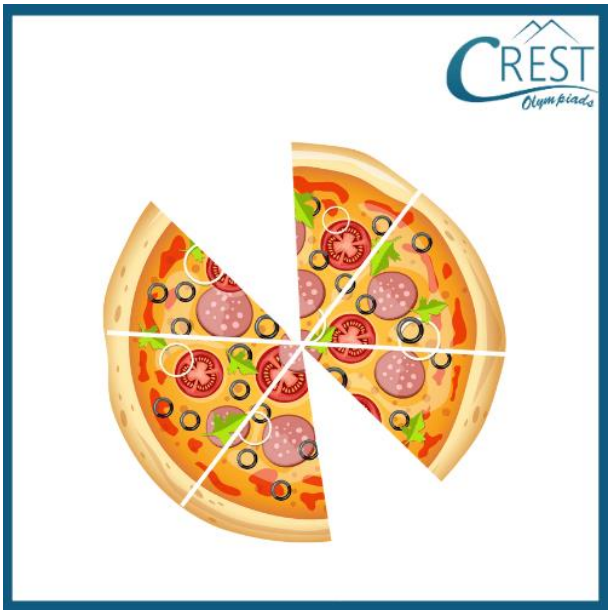
   a. 10/11
   b. 15/11
   c. 20/11
   d. 25/11

3. **What is the sum of the three shaded fractions shown below?**



   a. 1/2
   b. 1/4
   c. 1/3
   d. 3/4

4. **What is the fraction of pizza left if the two slices are eaten as shown?**



a. 1/4
b. 3/4
c. 1/8
d. 3/8

5. **140 kg of cashew sweets were bought for the marriage party. Out of which 2/5th was consumed by the guests. What amount of cashew sweets are left?**

a. 56 kg
b. 72 kg
c. 80 kg
d. 84 kg

Answer Key

1. c - $1\frac{4}{13}$

Explanation: 7 is the common factor of the numerator and denominator of the fraction 119/91.
Therefore, lowest form of $\frac{119}{91} = (119 \div 7)/(91 \div 7) = \frac{17}{13}$
In the lowest form of a fraction, the numerator 17 and denominator 13 have only one common factor of 1.
Simplest form in mixed fractions = $\frac{17}{13}$

$= \frac{(13 + 4)}{13}$

$= \frac{13}{13} + \frac{4}{13}$

$= 1 + \frac{4}{13}$

$= 1\frac{4}{13}$

2. c - 20/11

Explanation: fraction that should be added to $\frac{5}{11}$ to get $2\frac{3}{11}$

$= 2\frac{3}{11} - \frac{5}{11}$

$= \frac{25}{11} - \frac{5}{11}$

$= \frac{(25 - 5)}{11}$

$= \frac{20}{11}$

3. d - 3/4

Explanation: Sum of fractions = $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$

4. b - 3/4

Explanation: We can see two slices of pizza are eaten and six slices are left.
Hence, total no of equal parts = 2 + 6 = 8
Fraction of pizza left = 6/8
= 3/4 (After dividing numerator and denominator by 2)

5. d - 84 kg

Explanation: Total weight of cashew sweets purchased = 140 kg
Out of which $\frac{2}{5}$th was consumed by the guests.
Amount of cashew sweets consumed = $\frac{2}{5} \times 140$ kg

$= 2 \times (\frac{140}{5})$ kg

$= 2 \times 28$ kg

$= 56$ kg

Amount of cashew sweets left = 140 − 56 = 84 kg

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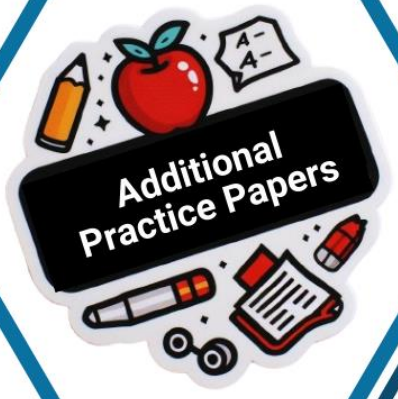

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