Year 6 Maths Homework

Due in Friday 23rd November 2018

Ordering fractions – place these fractions in order from smallest to largest. You will need to find a common denominator and convert all fractions so they have it.

e.g. $\frac{2}{4}$ $\frac{1}{4}$ $\frac{1}{8}$ = $\frac{4}{8}$ $\frac{2}{8}$ $\frac{1}{8}$ so the order is: $\frac{1}{8}$ $\frac{1}{4}$ $\frac{2}{4}$

1. $\frac{2}{3}$ $\frac{1}{6}$ $\frac{1}{3}$ $\frac{5}{6}$
2. $\frac{3}{4}$ $\frac{1}{8}$ $\frac{1}{4}$ $\frac{5}{8}$
3. $\frac{1}{5}$ $\frac{4}{15}$ $\frac{8}{10}$ $\frac{4}{5}$
4. $\frac{5}{6}$ $\frac{1}{12}$ $\frac{12}{18}$ $\frac{1}{6}$
5. $\frac{3}{7}$ $\frac{5}{21}$ $\frac{40}{42}$ $\frac{5}{14}$

Fractions of a quantity – solve these problems by dividing the quantity by the denominator and multiplying it by the numerator.

e.g. $\frac{3}{8}$ of 48 = (48 ÷ 8) x 3 = 18

1. $\frac{2}{5}$ of 55 =
2. $\frac{5}{6}$ of 48 =
3. $\frac{3}{7}$ of 77 =
4. $\frac{5}{8}$ of 120 =
5. $\frac{5}{9}$ of 207 =

Percentages of a quantity – solve these problems by multiplying the percentage by the quantity, and dividing the result by 100.

e.g. 40% of 20 = (40 x 20) ÷ 100 = 8

1. 30% of 50 =
2. 60% of 200 =
3. 15% of 65 =
4. 85% of 35 =
5. 34% of 122 =

Percentage increases and decreases – solve these problems by finding the percentage of the quantity as above, and then adding it to, or subtracting it from, the quantity.

e.g. Increase 45 by 60%: 60% of 45 is 27, 45 + 27 = 72.

1. Increase 30 by 20%
2. Decrease 70 by 60%
3. Increase 75 by 35%
4. Decrease 15 by 85%
5. Increase 4.7 by 12%