Birthday Cakes - Homework

I am learning to use multiplication to find a fraction of a set

AC
EA
AA
AM
AP

Remember, we solve problems like this by thinking about dividing and multiplying.

e.g. $\frac{2}{9}$ of 27 means: 27 ÷ 9 = ☐3 , 2 x ☐3 = 6

Warm up - Fill the boxes with the correct answers:

1) $\frac{1}{2}$ of 30 = ☐

2) $\frac{1}{4}$ of 24 = ☐

3) $\frac{1}{3}$ of 36 = ☐

4) $\frac{1}{5}$ of 30 = ☐

(5) $\frac{1}{9}$ of 27 = ☐

(6) $\frac{1}{15}$ of 60 = ☐

(7) $\frac{2}{3}$ of 18 = ☐

(8) $\frac{3}{5}$ of 40 = ☐

(9) $\frac{3}{8}$ of 32 = ☐

(10) $\frac{5}{7}$ of 42 = ☐

(11) $\frac{3}{11}$ of 22 = ☐

(12) $\frac{5}{6}$ of 48 = ☐

Step up:

1) $\frac{1}{3}$ of 33 = ☐

2) $\frac{1}{5}$ of 35 = ☐

3) $\frac{1}{8}$ of 48 = ☐

4) $\frac{1}{7}$ of 42 = ☐

(5) $\frac{1}{9}$ of 54 = ☐

(6) $\frac{1}{15}$ of 45 = ☐

(7) $\frac{2}{3}$ of 15 = ☐

(8) $\frac{3}{5}$ of 80 = ☐

(9) $\frac{3}{8}$ of 64 = ☐

(10) $\frac{5}{7}$ of 56 = ☐

(11) $\frac{3}{11}$ of 99 = ☐

(12) $\frac{5}{6}$ of 54 = ☐

What about some larger numbers?

1) $\frac{1}{3}$ of 120 = ☐

2) $\frac{1}{5}$ of 550 = ☐

3) $\frac{1}{8}$ of 112 = ☐

4) $\frac{1}{7}$ of 91 = ☐

(5) $\frac{1}{9}$ of 117 = ☐

(6) $\frac{1}{15}$ of 135 = ☐

(7) $\frac{2}{3}$ of 96 = ☐

(8) $\frac{3}{5}$ of 125 = ☐

(9) $\frac{3}{8}$ of 104 = ☐

(10) $\frac{5}{7}$ of 98 = ☐

(11) $\frac{3}{11}$ of 121 = ☐

(12) $\frac{5}{6}$ of 726 = ☐

Finale:

1) $\frac{5}{12}$ of 60 = ☐

2) $\frac{7}{12}$ of 84 = ☐

3) $\frac{1}{13}$ of 52 = ☐

4) $\frac{2}{15}$ of 75 = ☐

(5) $\frac{7}{15}$ of 90 = ☐

(6) $\frac{4}{17}$ of 51 = ☐

(7) $\frac{4}{25}$ of 125 = ☐

(8) $\frac{7}{25}$ of 100 = ☐

(9) $\frac{9}{19}$ of 76 = ☐

(10) $\frac{11}{19}$ of 95 = ☐

(11) $\frac{5}{11}$ of 132 = ☐

(12) $\frac{7}{11}$ of 143 = ☐

Birthday Cakes – Homework Sheet Answers

Warm up - Fill the boxes with the correct answers:

1) $\frac{1}{2}$ of 30 = **15**
2) $\frac{1}{4}$ of 24 = **6**
3) $\frac{1}{3}$ of 36 = **12**
4) $\frac{1}{5}$ of 30 = **6**

(5) $\frac{1}{9}$ of 27 = **3**
(6) $\frac{1}{15}$ of 60 = **4**
(7) $\frac{2}{3}$ of 18 = **12**
(8) $\frac{3}{5}$ of 40 = **24**

(9) $\frac{3}{8}$ of 32 = **12**
(10) $\frac{5}{7}$ of 42 = **30**
(11) $\frac{3}{11}$ of 22 = **6**
(12) $\frac{5}{6}$ of 48 = **40**

Step up:

1) $\frac{1}{3}$ of 33 = **11**
2) $\frac{1}{5}$ of 35 = **7**
3) $\frac{1}{8}$ of 48 = **6**
4) $\frac{1}{7}$ of 42 = **6**

(5) $\frac{1}{9}$ of 54 = **6**
(6) $\frac{1}{15}$ of 45 = **3**
(7) $\frac{2}{3}$ of 15 = **10**
(8) $\frac{3}{5}$ of 80 = **48**

(9) $\frac{3}{8}$ of 64 = **24**
(10) $\frac{5}{7}$ of 56 = **40**
(11) $\frac{3}{11}$ of 99 = **27**
(12) $\frac{5}{6}$ of 54 = **45**

What about some larger numbers?

1) $\frac{1}{3}$ of 120 = **40**
2) $\frac{1}{5}$ of 550 = **110**
3) $\frac{1}{8}$ of 112 = **14**
4) $\frac{1}{7}$ of 91 = **13**

(5) $\frac{1}{9}$ of 117 = **13**
(6) $\frac{1}{15}$ of 135 = **9**
(7) $\frac{2}{3}$ of 96 = **64**
(8) $\frac{3}{5}$ of 125 = **75**

(9) $\frac{3}{8}$ of 104 = **39**
(10) $\frac{5}{7}$ of 98 = **70**
(11) $\frac{3}{11}$ of 121 = **33**
(12) $\frac{5}{6}$ of 726 = **605**

Finale:

1) $\frac{5}{12}$ of 60 = **25**
2) $\frac{7}{12}$ of 84 = **49**
3) $\frac{1}{13}$ of 52 = **4**
4) $\frac{2}{15}$ of 75 = **10**

(5) $\frac{7}{15}$ of 90 = **42**
(6) $\frac{4}{17}$ of 51 = **12**
(7) $\frac{4}{25}$ of 125 = **20**
(8) $\frac{7}{25}$ of 100 = **28**

(9) $\frac{9}{19}$ of 76 = **36**
(10) $\frac{11}{19}$ of 95 = **55**
(11) $\frac{5}{11}$ of 132 = **60**
(12) $\frac{7}{11}$ of 143 = **91**