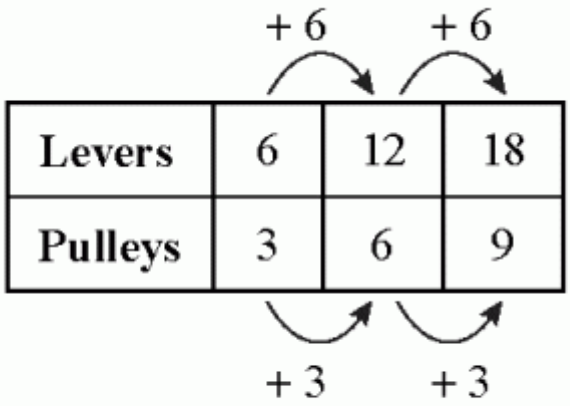
ANSWER PRESENTATION TOOL

1. The ratio of butterflies to caterpillars is 3 to 2, or 3 : 2.
The ratio means that there are 3 butterflies for every 2 caterpillars.

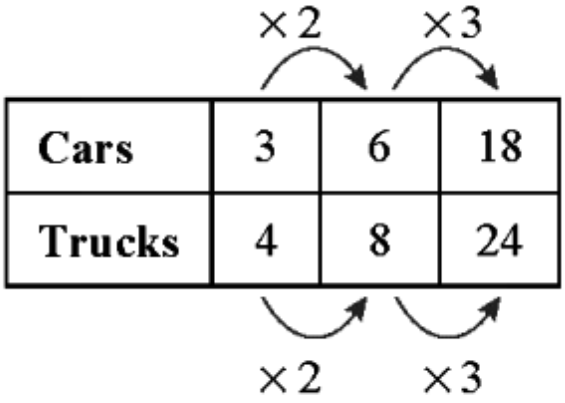
2. The ratio of saxophones to trumpets is 6 to 3, or 6 : 3.
The ratio means that there are 6 saxophones for every 3 trumpets.

3.



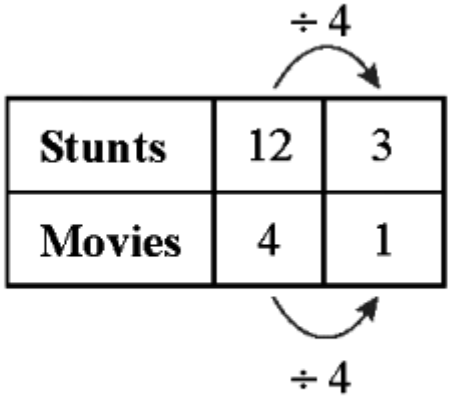
The equivalent ratios are 6 : 3, 12 : 6, and 18 : 9.

4.



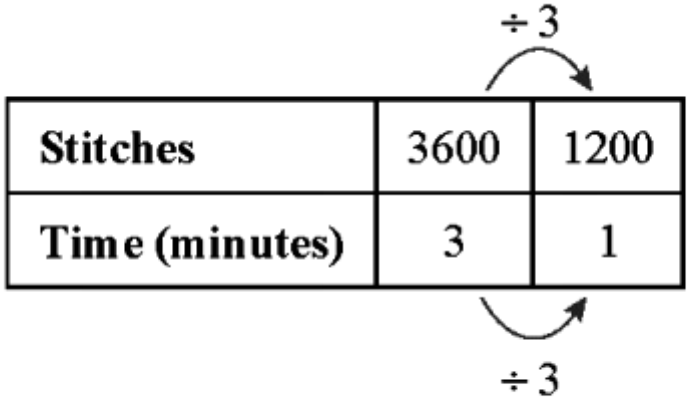
The equivalent ratios are 3 : 4, 6 : 8, and 18 : 24.

5.



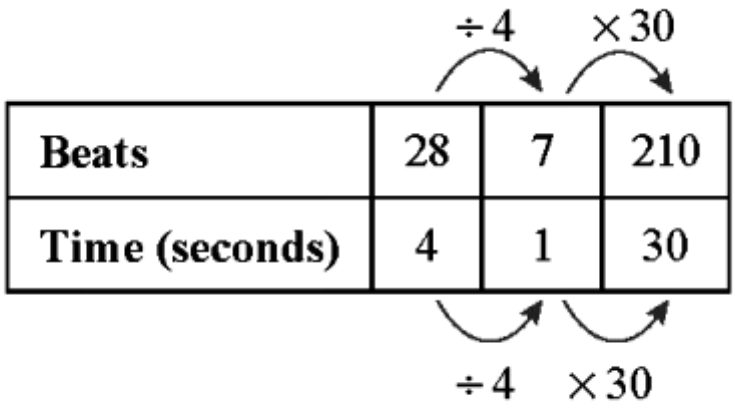
The unit rate is 3 stunts per movie.

6.



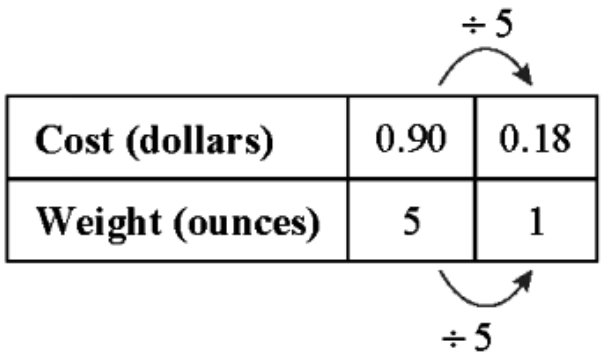
The unit rate is 1200 stitches per minute.

7.



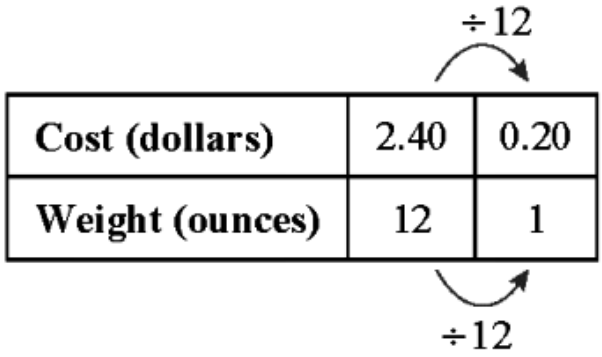
There are 210 beats in 30 seconds.

8. 5-ounce can



The unit rate for the 5-ounce can is \$0.18 per ounce.

12-ounce can



The unit rate for the 12-ounce can is \$0.20 per ounce.

The 5-ounce can is the better buy because it has a smaller unit rate.

9. $12\% = \frac{12}{100} = \frac{3}{25}$

10. $88\% = \frac{88}{100} = \frac{22}{25}$

11. $0.8\% = \frac{0.8}{100} = \frac{8}{1000} = \frac{1}{125}$

12. $\frac{3}{5} = \frac{3 \times 20}{5 \times 20} = \frac{60}{100} = 60\%$

13. $\frac{43}{25} = \frac{43 \times 4}{25 \times 4} = \frac{172}{100} = 172\%$

14. $1\frac{21}{50} = \frac{71}{50} = \frac{71 \times 2}{50 \times 2} = \frac{142}{100} = 142\%$

15. *Sample answer:* 60% of 80 $= \frac{3}{5} \times 80 = \frac{3 \times \overset{16}{\cancel{80}}}{\underset{1}{\cancel{5}}} = 48$

So, 60% of 80 is 48.

Write the percent as a fraction. Then multiply by the whole to find the part. Simplify the result.

16. *Sample answer:* $80\%\text{ of }55 = \frac{4}{5} \times 55 = \frac{4 \times \overset{11}{\cancel{55}}}{\underset{1}{\cancel{5}}} = 44$

So, 80% of 55 is 44.

Write the percent as a fraction. Then multiply by the whole to find the part. Simplify the result.

17. *Sample answer:*

$$150\%\text{ of }48 = \frac{3}{2} \times 48 = \frac{3 \times \overset{24}{\cancel{48}}}{\underset{1}{\cancel{2}}} = 72$$

So, 150% of 48 is 72.

Write the percent as a fraction. Then multiply by the whole to find the part. Simplify the result.

18. *Sample answer:*

$$35 \div \frac{70}{100} = 35 \times \frac{100}{70} = \frac{\overset{1}{\cancel{35}} \times \overset{50}{\cancel{100}}}{\underset{1}{\cancel{70}}} = 50$$

So, 70% of 50 is 35.

Write the percent as a fraction. Then divide the part by the percent to find the whole. Simplify the result.

19. *Sample answer:*

$$56 \div \frac{140}{100} = 56 \times \frac{100}{140} = \frac{\overset{2}{\cancel{56}} \times \overset{20}{\cancel{100}}}{\underset{1}{\cancel{140}_{\cancel{7}}}} = 40$$

So, 140% of 40 is 56.

Write the percent as a fraction. Then divide the part by the percent to find the whole. Simplify the result.

20. $3 \cancel{L} \times \frac{1 \text{ qt}}{0.95 \cancel{L}} \approx 3.16 \text{ qt}$

So, 3 L $\approx$ 3.16 qt.

21. $9.2 \cancel{\text{in.}} \times \frac{2.54 \text{ cm}}{1 \cancel{\text{in.}}} \approx 23.37 \text{ cm}$

So, 9.2 in. $\approx$ 23.37 cm

22. $15 \cancel{\text{lb}} \times \frac{0.45 \text{ kg}}{1 \cancel{\text{lb}}} \approx 6.75 \text{ kg}$

So, 15 lb $\approx$ 6.75 kg.