

1. What is your height (or what would you like your height to be) in:
a) inches? **b)** feet? **c)** millimeters? **d)** centimeters? **e)** meters? **f)** kilometers?

2. How many seconds are there in one calendar year?

3. Give your age (or what age you would like to be) in:
a) years **b)** months **c)** weeks **d)** days **e)** hours **f)** minutes **g)** seconds **h)** microseconds.

4. The minute and second hands on my watch are both 1 cm long; the hour hand is 0.5 cm long. At what speeds do the *tips* of each hand move?
a) second hand:

b) minute hand:

c) hour hand:

5. Take a piece of paper roughly the same size as this one and measure the sides (in cm).
a) What is its area (in cm^2)?

Cut it in half 12 times and paste/tape the last remaining piece on to this sheet.

b) What is the area of the piece that is left?

c) Compare the ratio of the measured areas of **b)** to **a)** to what you calculate from multiplying $\frac{1}{2}$ by itself 12 times.

(You are not done yet, there is more on the other side!)

