Solve in this handout

1. A bag may fit up to 12 cans of coke. How many bags are no	eeded to carry 80 cans?
	
2. A fake coin weighs less than real ones. Using two cup balar	nces find
a) the fake coin out of 3 in <i>only 1</i> weighing.	
b) the fake coin out of 9 in <i>only 2</i> weighing.	

3. Calculate:

$$2 \times (-6) =$$

$$\frac{1}{3} \times 6 =$$

$$\frac{2}{3} \times 6 =$$

$$\frac{1}{3}$$
: (-6) =

$$\frac{2}{3}$$
: (-6) =

$$2 \times \frac{1}{6} =$$

$$\frac{1}{3}$$
 × $\frac{1}{6}$ =

$$\frac{2}{3} \times \frac{1}{6} =$$

2:
$$(-\frac{1}{6}) =$$

$$\frac{1}{3}$$
: $\left(-\frac{1}{6}\right)$ =

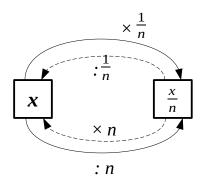
$$\frac{2}{3} \times \left(-\frac{1}{6}\right) =$$

Solve in your notebook

4. Show that ...

... a).
$$(2-4x) \times \frac{1}{2} + (\frac{1}{2}x + \frac{1}{2}) : \frac{1}{4} = 3$$

... b).
$$\left(\frac{1}{4} - w\right) \cdot 2 + \left(w - \frac{1}{6}\right) \cdot 3 = w$$



5. Make Cartesian coordinates using $\frac{1}{2}$ cm (1 cell) as a unit. Mark point D(3, 2). Plot w= Circ(\mathbf{D} , 5) (\mathbf{r} = 5 units = $2\frac{1}{2}$ cm). Shade the cells that are completely inside the circle.

Put upper and lower limits on the area of the circle: ____< **S** < ____

- **6*.** Solve the equations: (Answers: a). $\{-\frac{2}{3}, 2\}$ b). $\{-10, 30\}$ c. \emptyset)

a).
$$|3x - 2| = 4$$

b).
$$\left| \frac{1}{5}x - 2 \right| = 4$$

b).
$$\left| \frac{1}{5}x - 2 \right| = 4$$
 c). $\left| \frac{1}{5}x - 2 \right| = -4$

7. Solve equations:

a).
$$8 - 12x = 4$$

b).
$$8 - 12 : x = 4$$

c).
$$12:(8-x)=4$$

Answers: (a).
$$x = \frac{1}{3}$$
 b). $x = 3$ c). $x = 5$

b).
$$x = 3$$

c).
$$x = 5$$