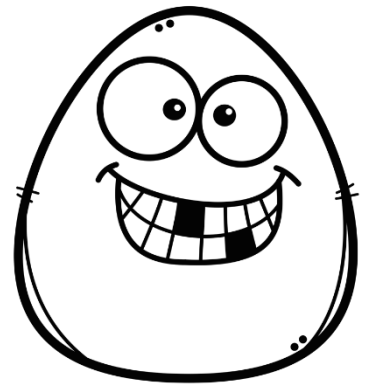


NUMBER
PATTERNS
Count forward



1. Count forward in 2's.
 - a. 122, 124, 126, 128, 130, 132, 134, 136.
 - b. 48, 50, 52, 54, 56, 58, 60, 62.
 - c. 500, 502, 504, 506, 508, 510, 512, 514.

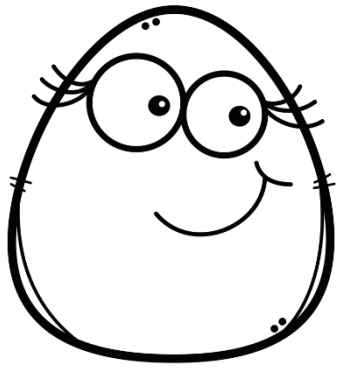
2. Count forward in 5's.
 - a. 50, 55, 60, 65, 70, 75, 80, 85, 90.
 - b. 400, 405, 410, 415, 420, 425, 430, 435.

3. Count forward in 100.
 - a. 200, 300, 400, 500, 600, 700, 800, 900.
 - b. 110, 210, 310, 410, 510, 610, 710, 810, 910.
 - c. 50, 100, 150, 250, 350, 450, 550, 650, 750.

4. Count forward in 500.
 - a. 500, 1000, 1500, 2000, 2500, 3000, 3500.
 - b. 1000, 1500, 2000, 2500, 3000, 3500, 4000.

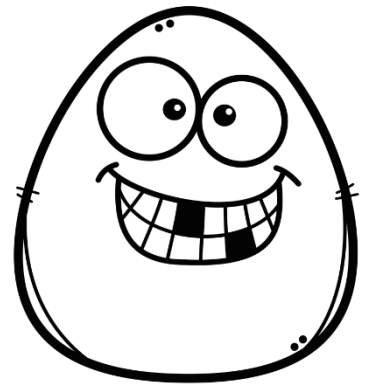
Complete the pattern:

1. 400, 800, 1200, 1600, 2000, 2400, 2800.
2. 5500, 5400, 5300, 5200, 5100, 5000, 4900.
3. 600, 900, 1200, 1500, 1800, 2100, 2400, 2700.



NUMBER PATTERNS

Count backward



1. Count backward in 2's.

a. 122, 120, 118, 116, 114, 112, 110, 108.

b. 48, 46, 44, 42, 40, 38, 36, 34.

c. 500, 498, 496, 494, 492, 490.

2. Count backward in 5's.

a. 50, 45, 40, 35, 30, 25, 20, 15, 10.

b. 400, 395, 390, 385, 380, 375, 370, 365.

3. Count backward in 100.

d. 900, 800, 600, 500, 400, 300, 200, 100.

e. 8910, 8810, 8710, 8610, 8510, 8410, 8310, 8210, 8110.

f. 720, 620, 520, 420, 320, 220, 120.

4. Count backward in 500.

c. 2500, 2000, 1500, 1000, 500.

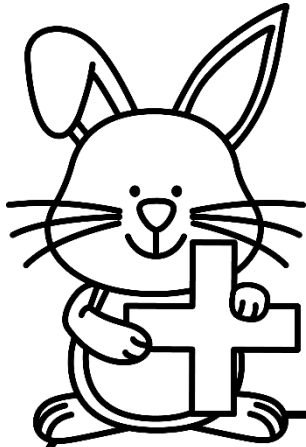
d. 9000, 8500, 8000, 7500, 7000, 6500.

Complete the pattern:

1. 9000, 8000, 7000, 6000, 5000, 4000, 3000.

2. 7700, 7600, 7500, 7400, 7300, 7200, 7100.

3. 1550, 1500, 1450, 1400, 1350, 1300, 1250, 1200.



Fun with ADDITION

Breaking down method - Break down both numbers

Calculate $5\,362 + 2\,486$

$$\begin{aligned} &= 5\,000 + 300 + 60 + 2 + 2\,000 + 400 + 80 + 6 \\ &= 5\,000 + 2\,000 + 300 + 400 + 60 + 80 + 2 + 6 \\ &= 7\,000 + 700 + 140 + 8 \\ &= 7\,848 \end{aligned}$$

Calculate the sums by using the breaking down method.

$$5362 + 246$$

$$\begin{aligned} &= 5000 + 300 + 60 + 2 + 200 + 40 + 6 \\ &= 5000 + 300 + 200 + 60 + 40 + 2 + 6 \\ &= 5000 + 500 + 100 + 8 \\ &= 5000 + 600 + 8 \\ &= 5608 \end{aligned}$$

$$4365 + 1552$$

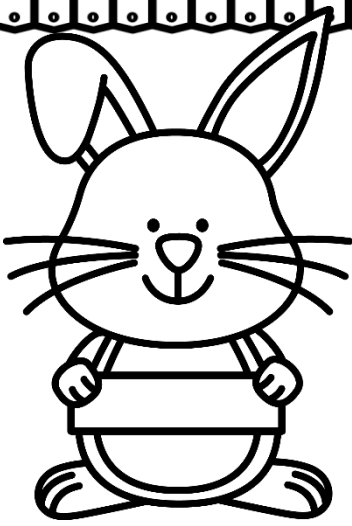
$$\begin{aligned} &= 4000 + 300 + 60 + 5 + 1000 + 500 + 50 + 2 \\ &= 4000 + 1000 + 300 + 500 + 60 + 50 + 5 + 2 \\ &= 5000 + 800 + 110 + 7 \\ &= 5000 + 910 + 7 \\ &= 5917 \end{aligned}$$

$$2194 + 3642$$

$$\begin{aligned} &= 2000 + 100 + 90 + 4 + 3000 + 600 + 40 + 2 \\ &= 2000 + 3000 + 100 + 600 + 90 + 40 + 4 + 2 \\ &= 5000 + 700 + 130 + 6 \\ &= 5000 + 830 + 6 \\ &= 5836 \end{aligned}$$

$$1671 + 327 =$$

$$\begin{aligned} &= 1000 + 600 + 70 + 1 + 300 + 20 + 7 \\ &= 1000 + 600 + 300 + 70 + 20 + 1 + 7 \\ &= 1000 + 900 + 90 + 8 \\ &= 1998 \end{aligned}$$



Fun with SUBTRACTION

Breaking down method - Break down both numbers

Calculate $8\,342 - 2\,131$

$$\begin{aligned} &= (8\,000 - 2\,000) + (300 - 100) + (40 - 30) + (2 - 1) \\ &= 6\,000 + 200 + 10 + 1 \\ &= 6\,211 \end{aligned}$$

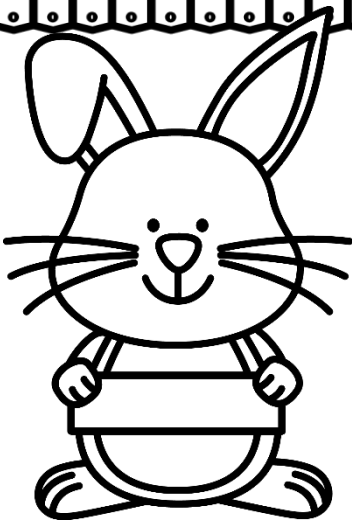
Calculate the sums by using the breaking down method.

$$\begin{aligned} 7\,182 - 61 &= \\ &= (7000) + (100) + (80-60) + (2-1) \\ &= 7000 + 100 + 20 + 1 \\ &= 7121 \end{aligned}$$

$$\begin{aligned} 8\,764 - 3\,451 &= \\ &= (8000-3000) + (700-400) + (60-50) + (4-1) \\ &= 5000 + 300 + 10 + 3 \\ &= 5313 \end{aligned}$$

$$\begin{aligned} 4\,997 - 895 &= \\ &= (4000) + (900-800) + (90-90) + (7-5) \\ &= 4000 + 100 + 0 + 2 \\ &= 4102 \end{aligned}$$

$$\begin{aligned} 8\,759 - 4\,733 &= \\ &= (8000-4000) + (700-700) + (50-30) + (9-3) \\ &= 4000 + 0 + 20 + 6 \\ &= 4026 \end{aligned}$$



Fun with MULTIPLY

Example 1

$$\begin{aligned}53 \times 5 &= \\ &= (50 + 3) \times 5 \\ &= (50 \times 5) + (3 \times 5) \\ &= 250 + 15 \\ &= 265\end{aligned}$$

Example 2

$$\begin{array}{r} 53 \\ \times \quad 5 \\ \hline 15 \quad (3 \times 5) \\ 250 \quad (50 \times 5) \\ \hline 265 \end{array}$$

Calculate the sums by using the methods used in example 1 and 2

Example 1

$$52 \times 9 =$$

$$\begin{aligned}52 \times 9 &= \\ &= (50 + 2) \times 9 \\ &= (50 \times 9) + (2 \times 9) \\ &= 450 + 18 \\ &= 468\end{aligned}$$

Example 2

$$\begin{array}{r} 52 \\ \times \quad 9 \\ \hline 18 \quad (2 \times 9) \\ 450 \quad (50 \times 9) \\ \hline 468 \end{array}$$

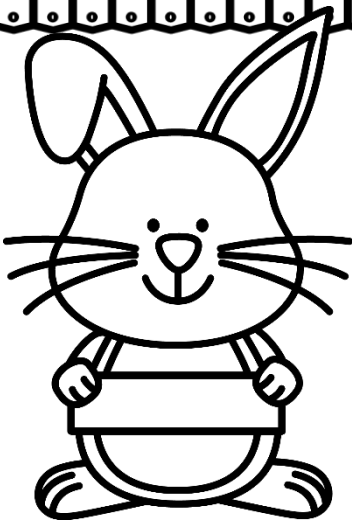
Example 1

$$23 \times 21 =$$

$$\begin{aligned}23 \times 21 &= \\ &= (20 + 3) \times (20 + 1) \\ &= (20 \times 20) + (3 \times 20) + (20 \times 1) + (3 \times 1) \\ &= 400 + 60 + 20 + 3 \\ &= 483\end{aligned}$$

Example 2

$$\begin{array}{r} 23 \\ \times \quad 21 \\ \hline 3 \quad (3 \times 1) \\ 20 \quad (20 \times 1) \\ 60 \quad (20 \times 3) \\ \hline 400 \quad (20 \times 20) \\ \hline 483 \end{array}$$



Fun with DIVISION

Example 1

$$\begin{aligned} 375 \div 5 \\ &= (300 + 70 + 5) \div 5 \\ &= (300 \div 5) + (70 \div 5) + (5 \div 5) \\ &= 60 + 14 + 1 \\ &= 75 \end{aligned}$$

Example 2

$$\begin{aligned} 42 \div 2 \\ &= (40 + 2) \div 2 \\ &= (40 \div 2) + (2 \div 2) \\ &= 20 + 1 \\ &= 21 \end{aligned}$$

Calculate the sums by using the methods used in example 1 and 2

$$64 \div 2 =$$

$$\begin{aligned} 64 \div 2 \\ &= (60 + 4) \div 2 \\ &= (60 \div 2) + (4 \div 2) \\ &= 30 + 2 \\ &= 32 \end{aligned}$$

$$48 \div 4 =$$

$$\begin{aligned} 48 \div 4 \\ &= (40 + 8) \div 4 \\ &= (40 \div 4) + (8 \div 4) \\ &= 10 + 2 \\ &= 12 \end{aligned}$$

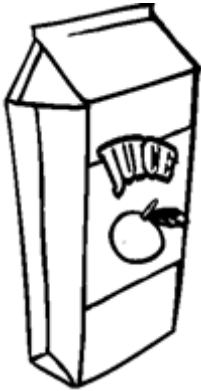
$$448 \div 4 =$$

$$\begin{aligned} 448 \div 4 \\ &= (400 + 40 + 8) \div 4 \\ &= (400 \div 4) + (40 \div 4) + (8 \div 4) \\ &= 100 + 10 + 2 \\ &= 112 \end{aligned}$$

$$369 \div 3 =$$

$$\begin{aligned} 369 \div 3 \\ &= (300 + 60 + 9) \div 3 \\ &= (300 \div 3) + (60 \div 3) + (9 \div 3) \\ &= 100 + 20 + 3 \\ &= 123 \end{aligned}$$

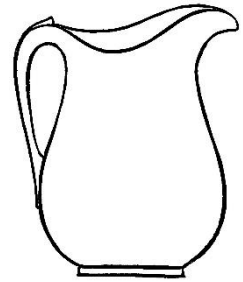
VOLUME



An orange juice carton holds 1 liter



This cup holds 250 ml.

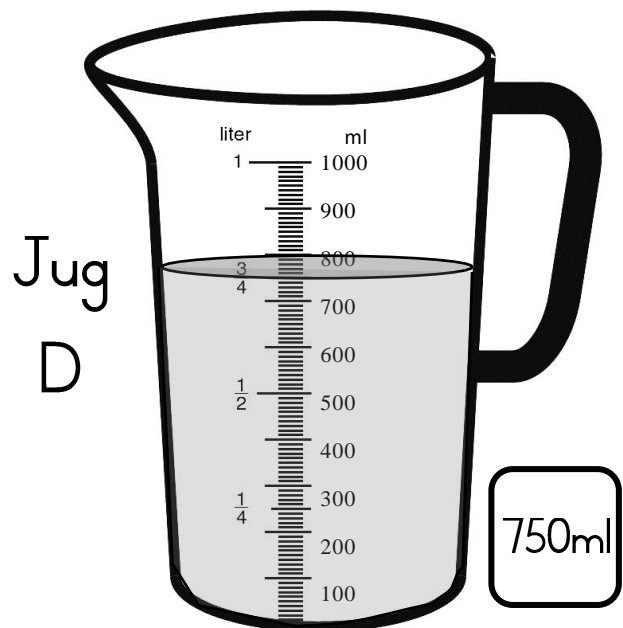
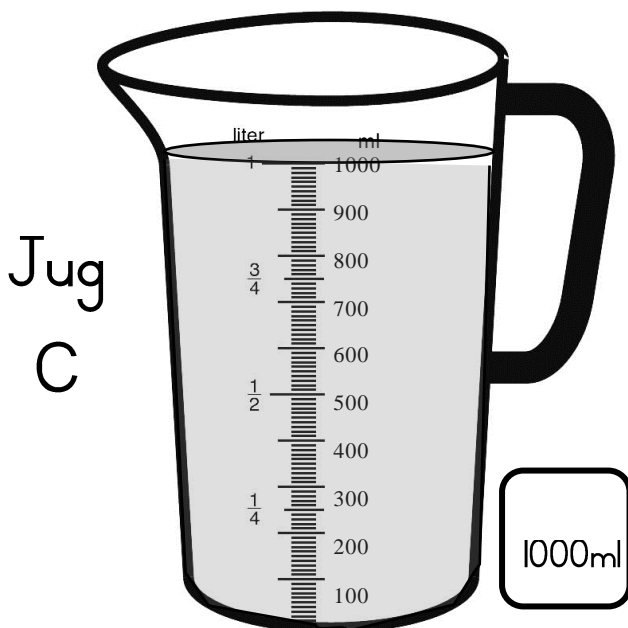
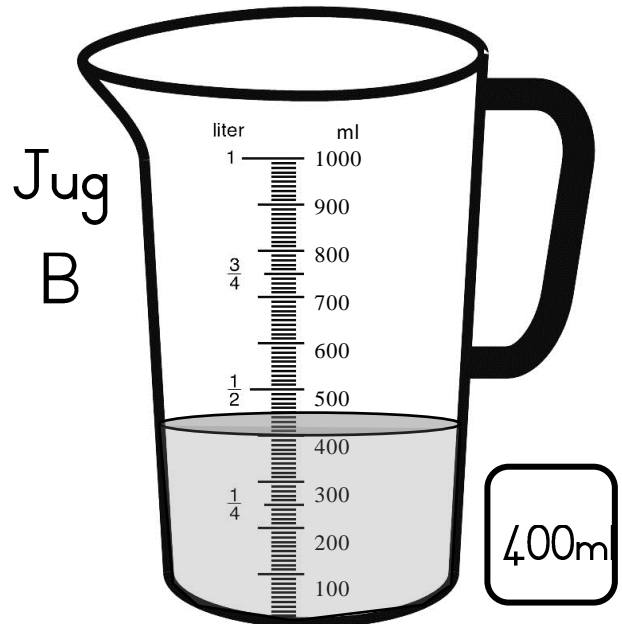
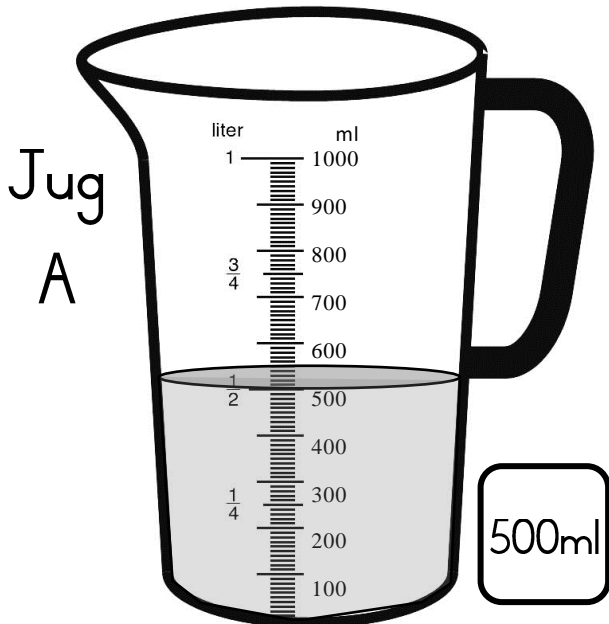


This jug holds 500 ml.

- a. A cup holds the orange juice carton, more than, less than, the same as.
- b. The orange juice carton holds the cup, more than, less than, the same as.
- c. The jug holds the orange juice carton, more than, less than, the same as.
- d. The jug holds the cup, more than, less than, the same as.
- e. The orange juice carton holds the jug, more than, less than, the same as

Capacity and Volume

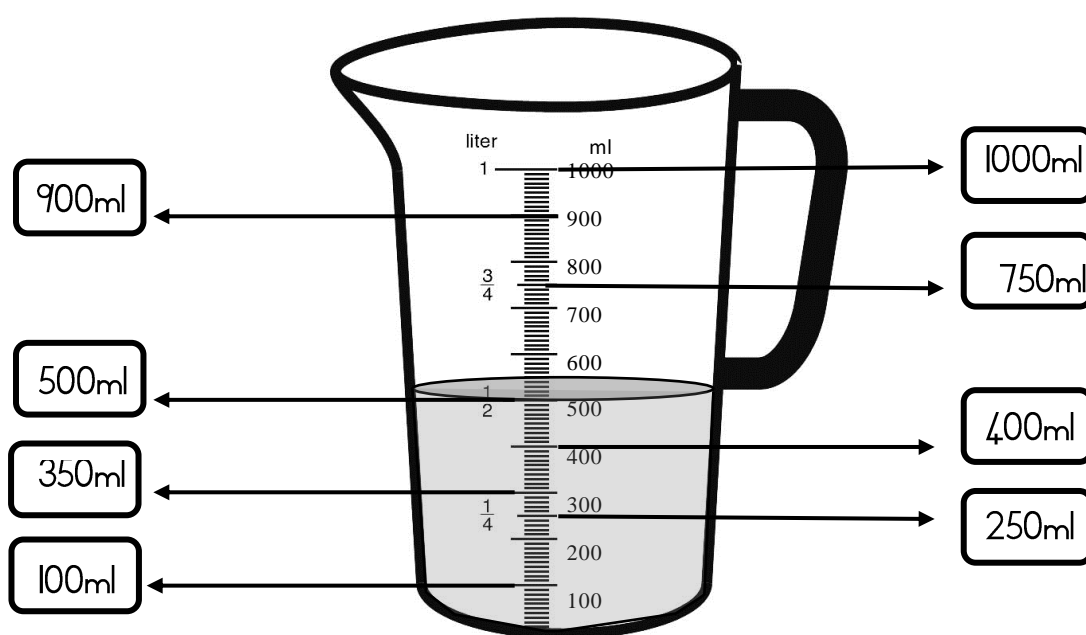
What is the capacity of each measuring jug in ml? Write the answer in the blocks.



1. How much water can the measuring jug hold? 1000ml / 1L
2. Which jug holds the most? Jug C
3. Which jug holds the least? Jug B
4. How much more does jug C have than jug B? $1000\text{ml} - 400\text{ml} = 600\text{ml}$
5. How much more does jug D have than jug A? $750\text{ml} - 500\text{ml} = 250\text{ml}$

ml and L

Write the capacity of each arrow in the blocks.



Convert between milliliter and liter

Example:

$$3750 \text{ ml} = 3 \text{ liters and } 750 \text{ millilitres}$$

$$4\frac{1}{2} \text{ liters} = 4 \text{ 500 millilitres}$$

1. $8320 \text{ ml} = 8 \text{ liter and } 320 \text{ ml}$
2. $5\frac{1}{2} \text{ liters} = 5500 \text{ ml}$
3. $1000 \text{ ml} = 1 \text{ liter}$
4. $\frac{1}{2} \text{ liter} = 500 \text{ ml}$