

**Warm Up**

**1** a) Insert brackets to the following number sentences to make the equality correct.

$$5 \times 154 + 46 = 1000$$

b) Compare:

$28 + b \underline{\hspace{1cm}} 28 + (b + 1)$

$28 + b \underline{\hspace{1cm}} 28 + (b - 1)$

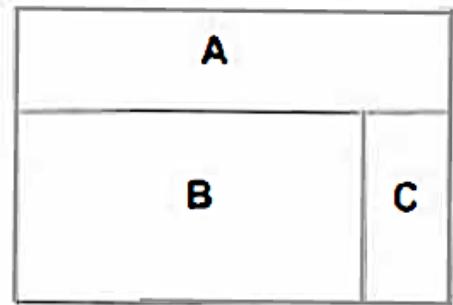
$32 + 1 \underline{\hspace{1cm}} 32 + (1 + 2)$

$32 - x \underline{\hspace{1cm}} 32 - (x - 2)$

$43 - (c + 4) \underline{\hspace{1cm}} 43 - c$

$58 - (p - 6) \underline{\hspace{1cm}} 58 - p$

**2** How many rectangles are there in the picture? List them all: \_\_\_\_\_



**3** Rank the children of the age line:

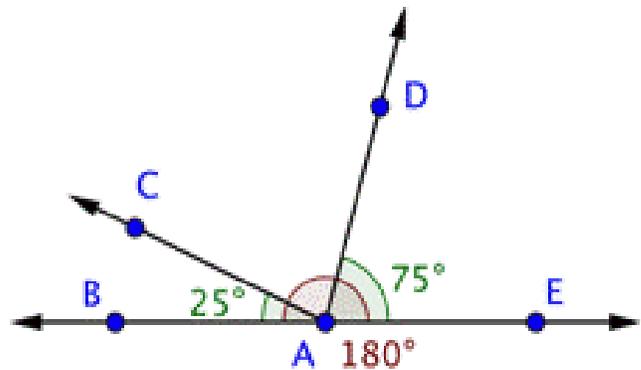
- Angie is older than Arthur
- Bob is younger than Katie
- Carl is the oldest
- Artur is older than Katie



**Homework Review**

**4.** Below is a drawing of a straight angle  $\angle BAE$  (remember that a straight angle is always  $180^\circ$ ). The angle  $\angle DAE$  equals  $75^\circ$  and the angle  $\angle BAC = 25^\circ$ .

- a) Find an angle  $\angle CAD =$  \_\_\_\_\_
- b) Find an angle  $\angle BAD =$  \_\_\_\_\_
- a) Find an angle  $\angle CAE =$  \_\_\_\_\_



**5** Calculate:  
 $6 \times 6 \div 6 =$

$7 \div 1 \times 7 =$

$30 \div 30 \times 30 =$

## New Material I

Multiplication and division are **inverse operations**.

It means that if we take a number and multiply it by another number and then divide the result by the same number, we will end up with our initial number.

$$11 \times 2 \div 2 = 11$$

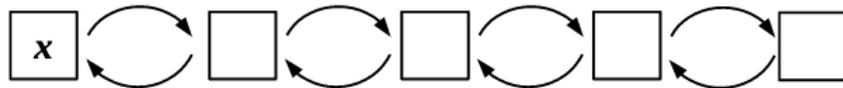
$$34 \times 9 \div 9 = 34$$

$$52 \div 26 \times 26 = 52$$

Analyze the operations and undo them to solve the equation:

**6**

$x \times 5$	:	3	:	2	=	5
$x =$						
$x =$						



How to solve equations with division.

To solve for  $x$  the following equation:  $5x = 25$ , we have to “undo” multiplying by 5. So, we have to divide BOTH part of equation (this is an equation, remember?) by 5.

$$5x \div 5 = 25 \div 5 \quad \text{and we get} \quad x = 5$$

Let's check our work (always do it!):  $5 \times x = 25$ , using the solution we found, we write:

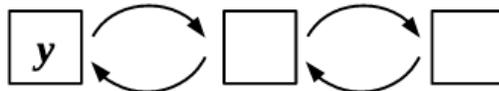
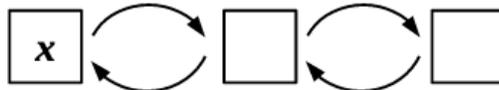
$$5 \times 5 = 25 \text{ or } 25 = 25! \text{ Our solution is correct.}$$

**7.**

Solve the equations (use drawings):

$x \times 7$	-	22	=	41
$x \times 7 =$	41	+		
$x \times 7 =$				
$x =$				
$x =$				

✓



$y : 4$	+	21	=	27

✓





## Challenge Yourself

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Solve each word problem:

a) A line segment was split into 8 parts. Each part was further split into 5 sections. How many sections was the segment split into?

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b) A watermelon can be balanced on a scale by  $x$  apples. An apple can be balanced by  $q$  strawberries. How many strawberries are needed to balance a watermelon?

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