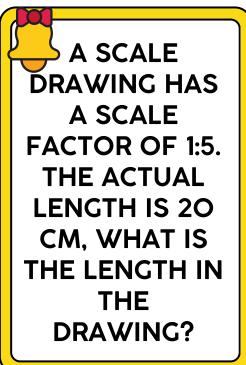


WHAT IS A SCALE DRAWING?

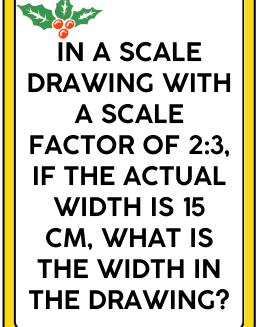
A SCALE DRAWING
IS A
REPRESENTATION
OF AN OBJECT OR
SPACE WHERE THE
DIMENSIONS ARE
PROPORTIONALLY
REDUCED OR
ENLARGED
COMPARED TO THE
ACTUAL OBJECT.

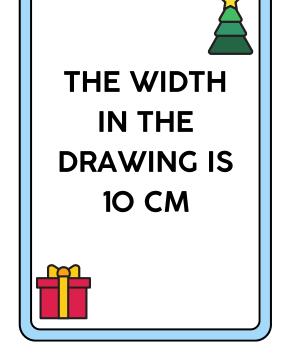
HOW CAN
YOU
DETERMINE
THE SCALE
FACTOR OF
A SCALE
DRAWING?

THE SCALE
FACTOR IS
DETERMINED
BY COMPARING
CORRESPONDI
NG LENGTHS IN
THE DRAWING
AND THE
ACTUAL
OBJECT.











WHAT DOES
A SCALE
FACTOR OF
1:1 MEAN IN
A SCALE
DRAWING?

THE DRAWING
IS THE SAME
SIZE AS THE
ACTUAL
OBJECT; THERE
IS NO
REDUCTION OR
ENLARGEMENT.

IF THE SCALE
FACTOR OF A
MODEL CAR IS
1:50, AND THE
LENGTH OF THE
ACTUAL CAR IS
4 METERS,
WHAT IS THE
LENGTH OF THE
MODEL?

THE LENGTH
OF THE
MODEL CAR
IS 8 CM





HOW DO YOU CREATE AN ENLARGED SCALE DRAWING?



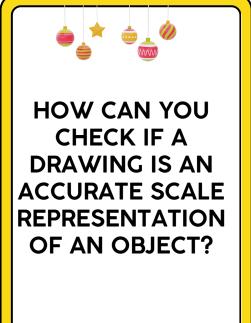
MULTIPLY THE DIMENSIONS OF THE ACTUAL OBJECT BY THE SCALE FACTOR TO OBTAIN THE DIMENSIONS OF THE ENLARGED DRAWING.



WHAT IS THE PURPOSE OF USING A SCALE DRAWING IN REAL-LIFE APPLICATIONS? TO REPRESENT
OBJECTS OR
SPACES
ACCURATELY
WHILE FITTING
THEM ONTO A
MANAGEABLESIZED PIECE OF
PAPER.

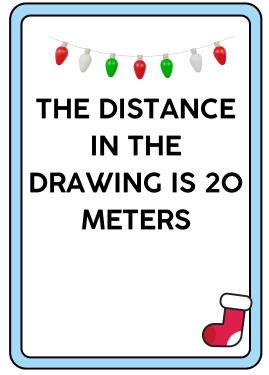
IF THE SCALE
FACTOR IS 1:3
AND THE
ACTUAL
HEIGHT IS 90
CM, WHAT IS
THE HEIGHT IN
THE SCALE
DRAWING?

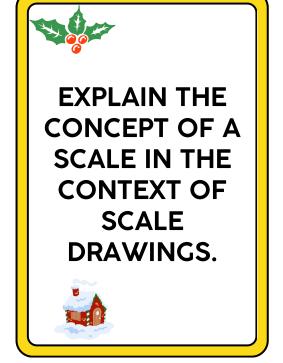




COMPARE THE
RATIOS OF
CORRESPONDING
LENGTHS IN THE
DRAWING AND
THE ACTUAL
OBJECT TO
ENSURE THEY
ARE EQUAL.

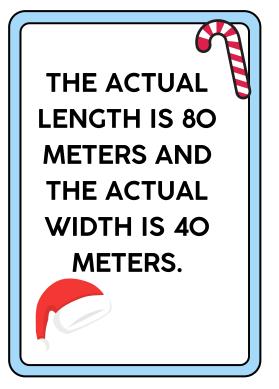
IN A SCALE
DRAWING WITH
A SCALE
FACTOR OF 1:4,
IF THE ACTUAL
DISTANCE IS 80
METERS, WHAT
IS THE
DISTANCE IN
THE DRAWING?

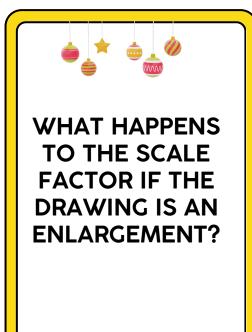




A SCALE IS THE
RATIO OF A
LENGTH ON A
SCALE DRAWING
TO THE
CORRESPONDING
LENGTH ON THE
ACTUAL OBJECT.\*\*

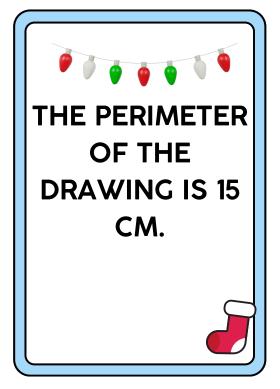
IF A
RECTANGULAR
ROOM IS
REPRESENTED BY
A SCALE DRAWING
WITH A LENGTH
OF 8 CM AND A
WIDTH OF 4 CM,
AND THE SCALE
FACTOR IS 1:10,
WHAT ARE THE
ACTUAL
DIMENSIONS OF
THE ROOM?

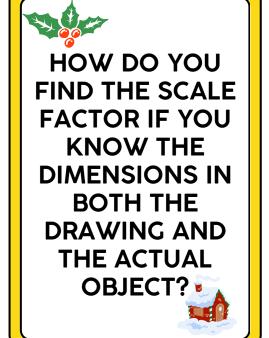


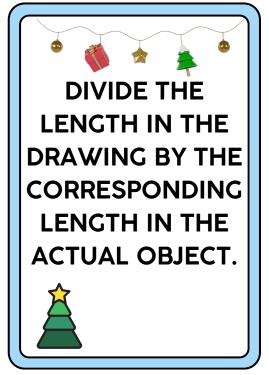




THE SCALE
FACTOR OF A
DRAWING IS 1:2
AND THE
ACTUAL
PERIMETER IS
30 CM, WHAT
IS THE
PERIMETER OF
THE DRAWING?

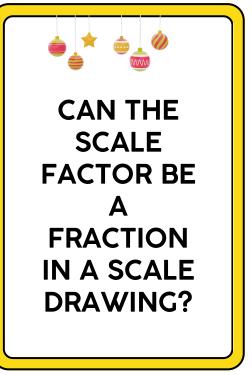


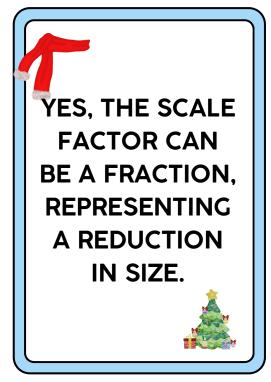




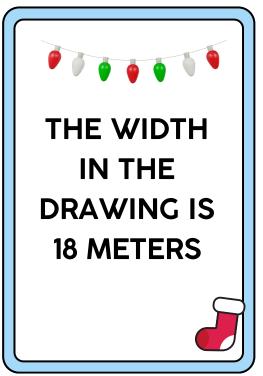
IF A MAP HAS A
SCALE OF
1:5000, AND
THE ACTUAL
DISTANCE
BETWEEN TWO
CITIES IS 25
KILOMETRES,
WHAT IS THE
DISTANCE ON
THE MAP?

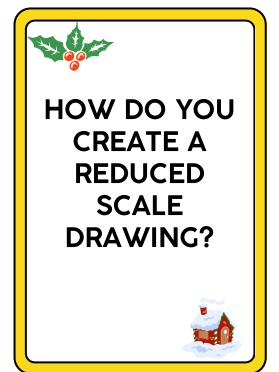






IF THE SCALE
FACTOR OF A
DRAWING IS 3:2
AND THE
ACTUAL WIDTH
IS 12 METERS,
WHAT IS THE
WIDTH IN THE
DRAWING?





DIVIDE THE
DIMENSIONS OF
THE ACTUAL
OBJECT BY THE
SCALE FACTOR
TO OBTAIN THE
DIMENSIONS OF
THE REDUCED
DRAWING.