

Ihinkers

Association of Teachers of Mathematics

Sketchnote summary by Charlotte Hawthorne ~ @mrshawthorne7

GIVE AN EXAMPLE ...

OF A PAIR OF EQUIVALENT FRACTIONS

... AND ANOTHER-

A FRACTION EQUIVALENT TO 2/3

PARTICULAR EXAMPLE +

A PECULIAR EXAMPLE ...

... IN GENERAL?

> 2x/3x

ADDITIONAL CONDITIONS

GIVE ME AN EXAMPLE OF

a set of numbers whose mean is 5

3,4,6,7

... and whose mode is 4

2, 4, 4, 5, 10

... and whose median is 3

... and whose range is 6

(for the brave) ... and whose standard deviation is 1

ALWAYS

SQUARING A NUMBER MAKES IT BIGGER

SOMETIMES

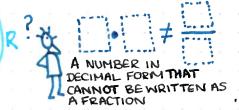
A HEXAGON WITH EQUAL SIDES IS REGULAR

Sin2x = 2sinx

IMPOSSIBLE CONSTRUCTIONS

IF EVERY TASK HAS A SOLUTION, LEARNERS MAY FORM THE IMPRESSION THAT ANY QUESTION CAN BE ANSWERED'

A SQUARE NUMBER WITH AN EVEN NUMBER OF FACTORS



HARD / EASY

GIVE AN EXAMPLE WHICH IS REALLY HARD OR COMPLICATED AND ONE WHICH IS REALLY EASY OR SIMPLE!

THE EXAMPLES LEARNERS CHOOSE REVEAL A GOOD DEAL ABOUT WHAT THEY FIND DIFFICULT

CREATING A HARD EXAMPLE... IS ALSO A VALUABLE LEARNING EXPERIENCE

PLACING SOME SIMILAR GIVEN OBJECTS IN ORDER CAN REVEAL DIFFERENCES AND SIMILARITIES'

E.g. Order a set of linear algebraic expressions according to what their value will be for certain values of x. How might this change for different values of x?

