Unit 4 Module 3 Session 4

Problems & Investigations-Fractions As Distances

Getting Ready-

- TM T6 Double Number Line (see Preparation)
- 2 super magnets with hooks (see Preparation)
- a measuring tape
- heavy cotton string (see Preparation)
- copy paper (see Preparation) • scissors, class set
- a large paperclip for each student

Vocabulary

Distance

Eighth/eighths

Fourth/fourths

Fraction

Half/halves

- Demonstrate an understanding of a unit fraction
- Show a unit fraction on a number line
- Compare 2 fractions with the same numerator
- Explain why one fraction must be greater or less than another fraction

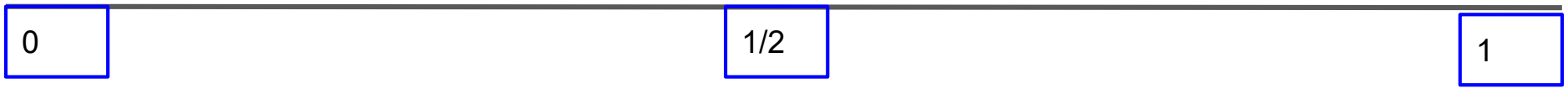
NAME SOME UNIT FRACTIONS

Fractions as Differences

This number line represents one whole

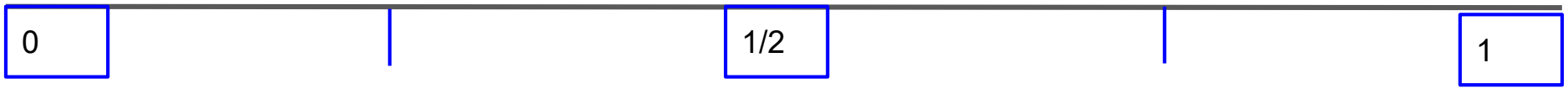
Where do you think we could place ½?

Fractions as Differences



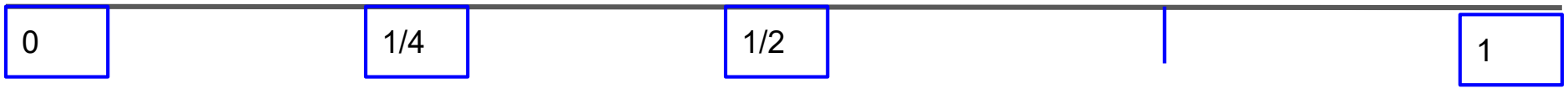
Where do you think we could place 1/4? Right now we have 2 equal parts. To find ¼ we need to have 4 equal parts.

Fractions as Differences



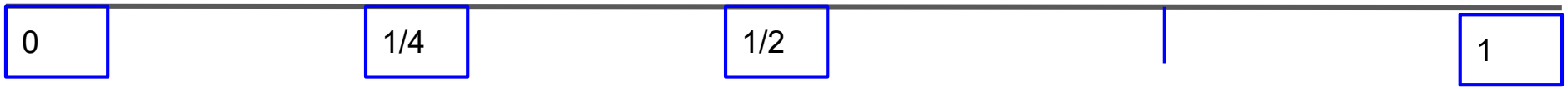
We now have 4 equal parts. Each of them are fourths. Where should the ¼ be placed?

Fractions as Differences



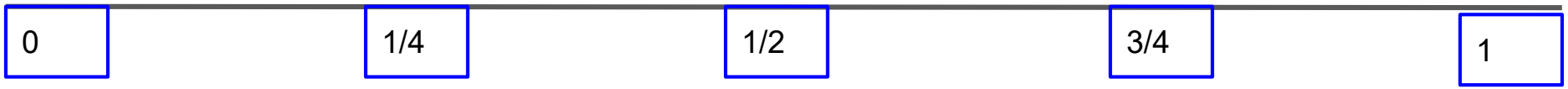
We now have 4 equal parts. Each of them are fourths. Where is the ¼?

Fractions as Differences



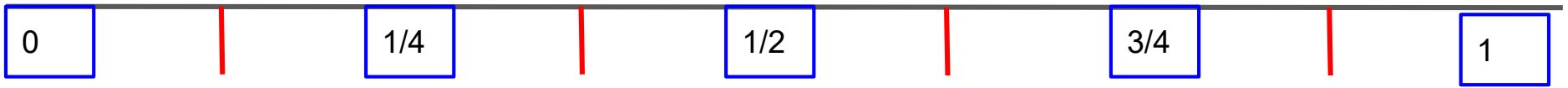
Where should ¾ be placed?

Fractions as Differences



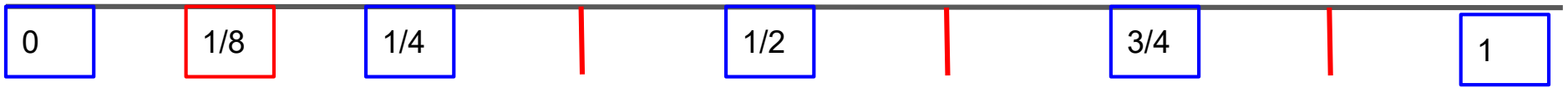
Where should 1/8 be placed? Hmm, with ¼ you needed 4 equal parts. So what do you need with eighths?

Fractions as Differences

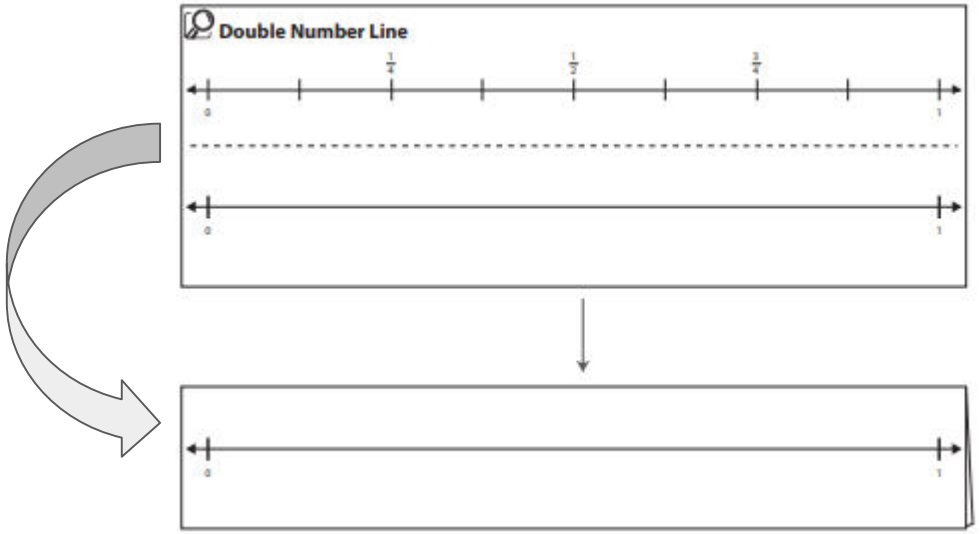


8 equal parts!! Where would ⅛ go?

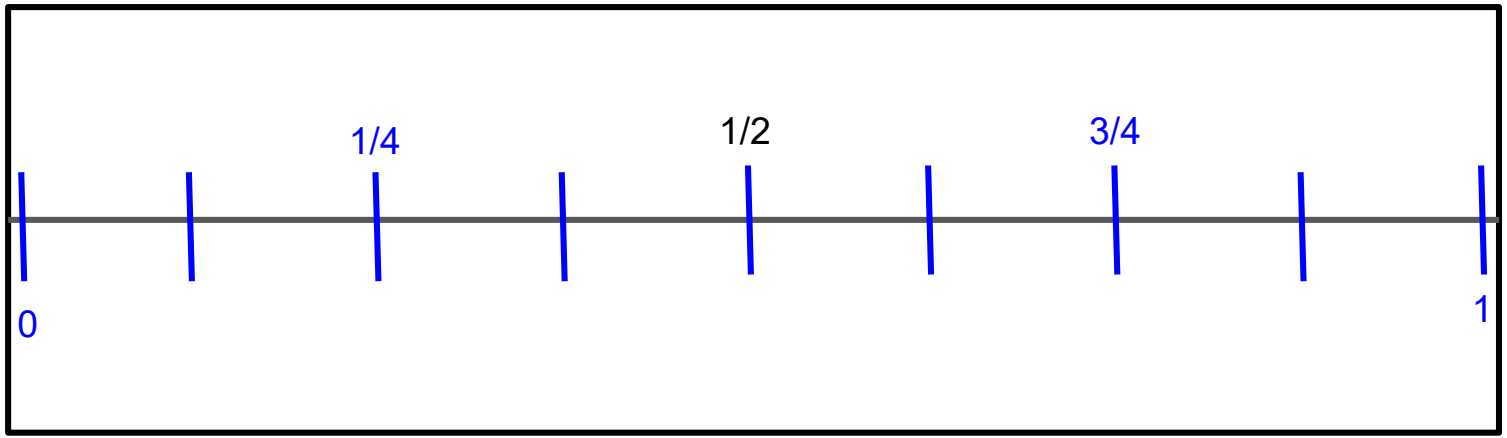
Fractions as Differences



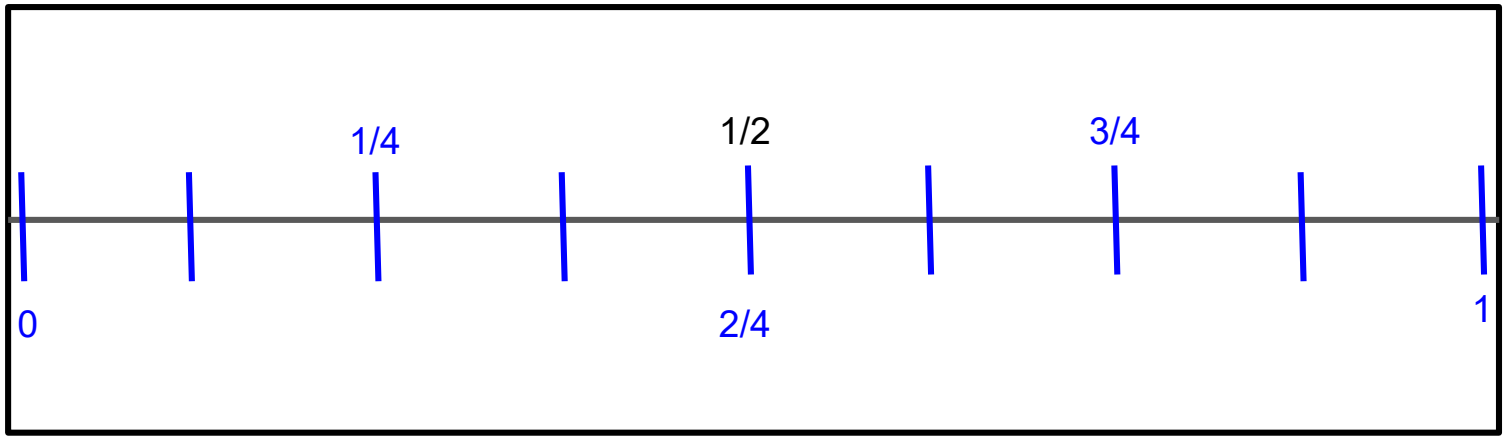
Pass out Double Number Line sheet and paper clips.



Without looking can you place the paper clip on the ½?

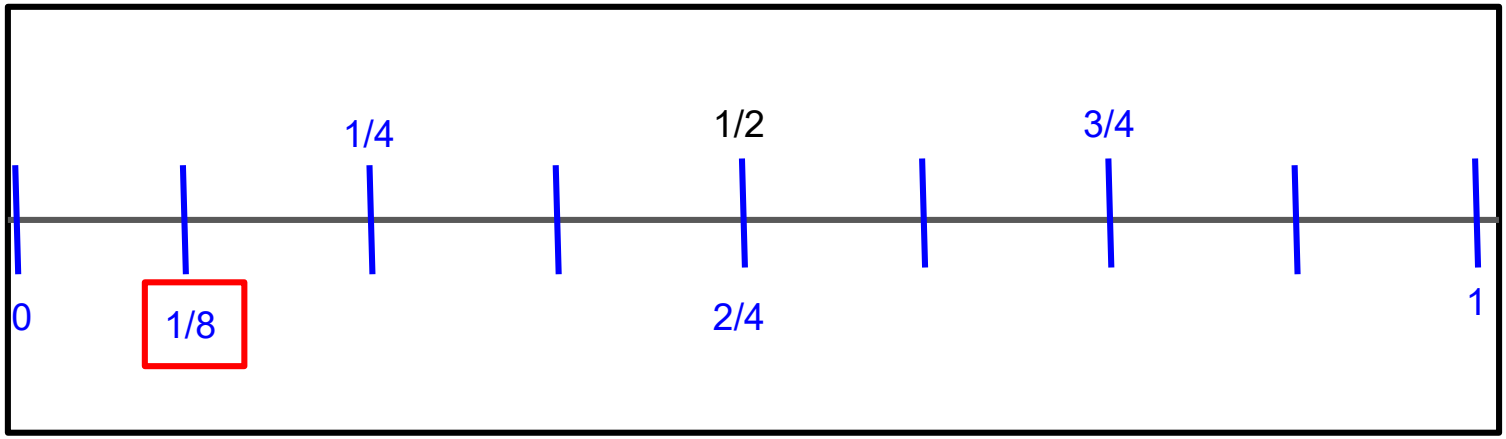


Where would 2/4 go?

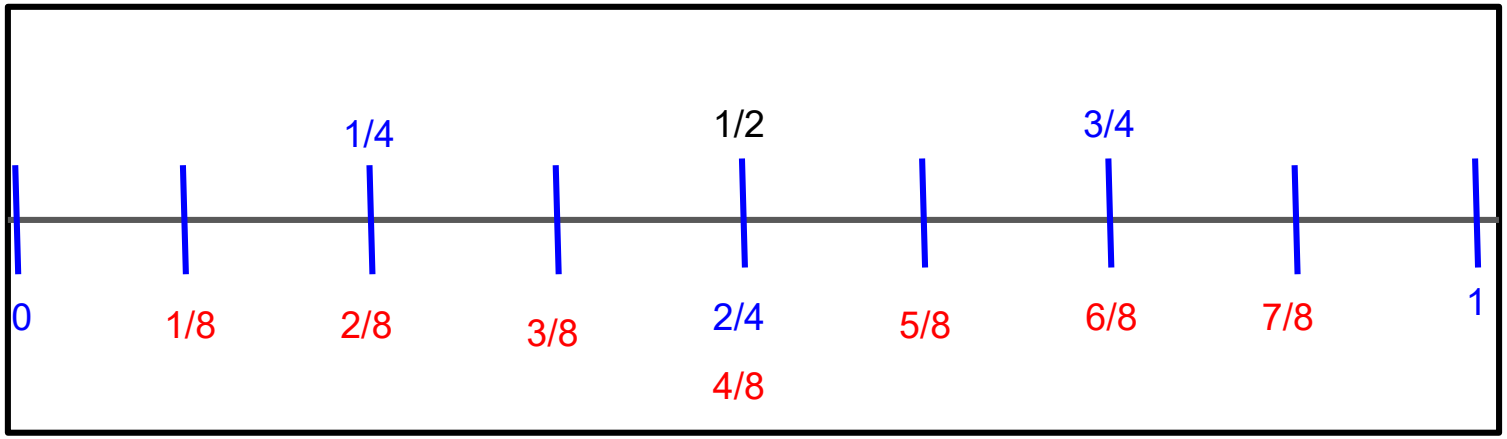


What??? It’s equivalent to ½?

How about ⅛?



Let’s fill in the rest of the eighths.



4/8 is also = to 1/2!!! So it must also be = to 2/4. What other equivalent fractions can you find?

Let's check your understanding

Turn your double number line around again and I will ask you to place your paper clip at different fractions.

1/8, 6/8, 3/8, 1/4 + 1/4, 1/8 + 1/8

Work Places

3C Round Ball Hundreds

3D Round & Add Hundreds

4A Tic-Tac-Tock

4B Measurement Scavenger Hunt

4C Target One Thousand

4D Hexagon Spin & Fill

Daily Practice

SB 133 The Broken Ruler, Part 1