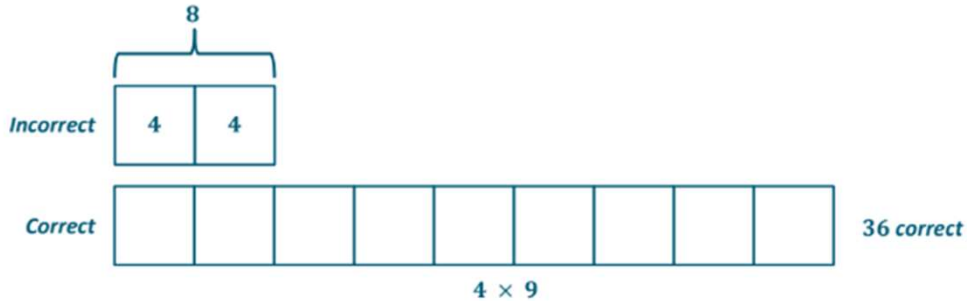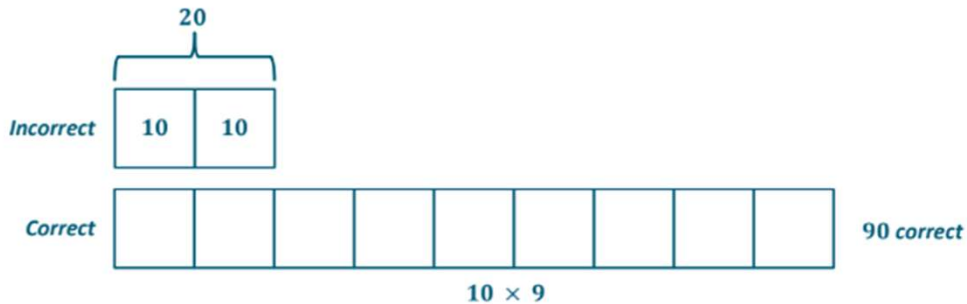# Equivalent Ratios Worksheet

Josie took a long multiple-choice, end-of-year vocabulary test. The ratio of the number of problems Josie got incorrect to the number of problems she got correct is $2 : 9$.

    a.   If Josie missed 8 questions, how many did she get correct? Draw a tape diagram to demonstrate how you found the answer.

    b.   If Josie missed 20 questions, how many did she get correct? Draw a tape diagram to demonstrate how you found the answer.

    c.   What ratios can we say are equivalent to $2 : 9$?

    d.   Come up with another possible ratio of the number Josie got incorrect to the number she got correct.

    e.   How did you find the numbers?

    f.   Describe how to create equivalent ratios.

Equivalent Ratios Worksheet

Josie took a long multiple-choice, end-of-year vocabulary test. The ratio of the number of problems Josie got incorrect to the number of problems she got correct is $2:9$.

a. If Josie missed 8 questions, how many did she get correct? Draw a tape diagram to demonstrate how you found the answer.

8

4	4

Incorrect

Correct   36 correct

4×9

b. If Josie missed 20 questions, how many did she get correct? Draw a tape diagram to demonstrate how you found the answer.

20

10	10

Incorrect

Correct   90 correct

10×9

c. What ratios can we say are equivalent to $2:9$?

$8:36$ and $20:90$

d. Come up with another possible ratio of the number Josie got incorrect to the number she got correct.

5	5

$5 \times 9 = 45$

$10:45$

e. How did you find the numbers?

Multiplied 5×2 and 5×9

f. Describe how to create equivalent ratios.

Multiply both numbers of the ratio by the same number (any number you choose).