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Equivalent Decimals

1. Write an equivalent decimal and an equivalent fraction for each of the following.

   a. 1.75
   b. 0.875
   c. 4.20
   d. 3.05
   e. $\frac{3}{25}$
   f. 5.25
   g. $\frac{7}{50}$
   h. $\frac{5}{40}$

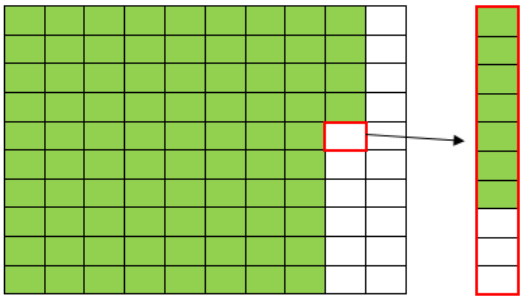
Solution:
a.
b.
c.
d.
e.
f.
g.
h.

2. Draw a model to find whether the pair of fractions or decimals is equivalent or not equivalent?

   a. 0.57 and 0.577
   b. 0.4 and $\frac{1}{4}$
   c. 0.05 and $\frac{1}{20}$

Solution:
a.
b.
c.

3. Which decimal is equivalent to the value shown by the model below?



   A. 0.848
   B. 0.850
   C. 0.87
   D. 0.847

Solution:

4. A box containing 5 pencils costs $4.25 in a store. A similar box containing 10 pencils costs $8.15. Is the price of one pencil in both boxes equivalent? If not, which box of pencils cost more for a single pencil?

Solution:

5. Archie bought a burger for $8.75 and a drink for 4\frac{2}{3}$. If he had $20, how much money is he left with after buying burger and drink?

Solution:

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Equivalent Decimals

Answer Key

1. Write an equivalent decimal and an equivalent fraction for each of the following.

   a. 1.75
   b. 0.875
   c. 4.20
   d. 3.05
   e. $\frac{3}{25}$
   f. 5.25
   g. $\frac{7}{50}$
   h. $\frac{5}{40}$

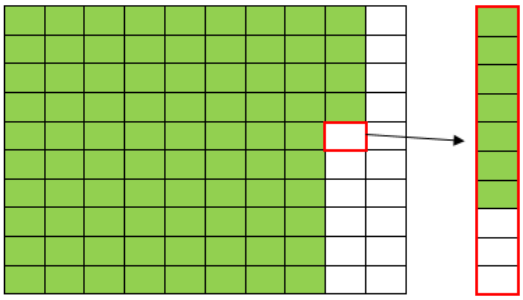
Solution:
a. 1.750; $1\frac{3}{4}$
b. 0.8750; $\frac{7}{8}$
c. 4.2; $4\frac{1}{5}$
d. 3.050; $3\frac{1}{20}$
e. 0.12, $\frac{6}{50}$
f. 5.250; $5\frac{1}{4}$
g. 7.50; $\frac{14}{100}$
h. 0.125; $\frac{1}{8}$

2. Draw a model to find whether the pair of fractions or decimals is equivalent or not equivalent?

   a. 0.57 and 0.577
   b. 0.4 and $\frac{1}{4}$
   c. 0.05 and $\frac{1}{20}$

Solution:
a. Not equivalent
b. Not equivalent
c. Equivalent

3. Which decimal is equivalent to the value shown by the model below?



   A. 0.848
   B. 0.850
   C. 0.87
   D. 0.847

Solution: D

4. A box containing 5 pencils costs $4.25 in a store. A similar box containing 10 pencils costs $8.15. Is the price of one pencil in both boxes equivalent? If not, which box of pencils cost more for a single pencil?

Solution:
1st box: $0.85 each pencil
2nd box: $0.815 each pencil
Not equivalent, 1st box cost more

5. Archie bought a burger for $8.75 and a drink for 4\frac{2}{3}$. If he had $20, how much money is he left with after buying burger and drink?

Solution:
$6\frac{7}{12}$