Reasoning and Problem Solving
Step 7: Hundredths

National Curriculum Objectives:

Mathematics Year 4: (4F1) Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
Mathematics Year 4: (4F6b) Recognise and write decimal equivalents of any number of tenths or hundredths

Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Identify and explain errors when counting forwards or backwards in one hundredths.
Expected Identify and explain errors when counting forwards or backwards in one hundredths and including equivalent tenths.
Greater Depth Identify and explain errors when counting forwards or backwards in intervals greater than one hundredth and including equivalent tenths.

Questions 2, 5 and 8 (Problem Solving)
Developing Match a decimal partitioned into hundredths and some tenths to the correct fraction.
Expected Match a decimal partitioned into tenths and hundredths to the correct fraction. Includes some unconventional partitioning.
Greater Depth Match a decimal partitioned into ones, tenths and hundredths to the correct fraction. Includes unconventional partitioning.

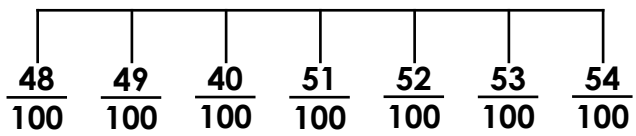
Questions 3, 6 and 9 (Problem Solving)
Developing Calculate how many more hundredths will make one whole.
Expected Calculate how many more tenths and hundredths will make one whole.
Greater Depth Calculate how many more tenths and hundredths will make one whole. Includes unconventional partitioning.

More Year 4 Decimals resources.

Did you like this resource? Don't forget to review it on our website.

Hundredths

1a. Stan has completed this section of a number line below.

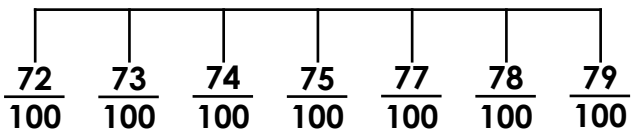


Is he correct? Explain how you know.

D R

Hundredths

1b. Mel has completed this section of a number line below.



Is she correct? Explain how you know.

D R

2a. Match the child to the correct number.

Don has 20 hundredths and 7 hundredths.

Mia has 2 tenths and 5 hundredths.

Ken has 20 hundredths and 9 hundredths.

A. $\frac{25}{100}$ B. $\frac{29}{100}$ C. $\frac{27}{100}$

D PS

2b. Match the child to the correct number.

Kai has 30 hundredths and 5 hundredths.

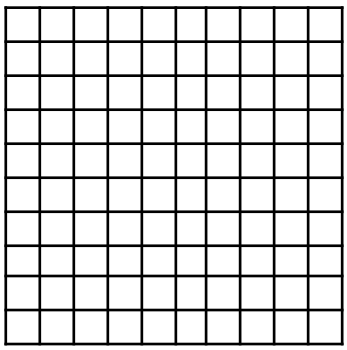
Sue has 30 hundredths and 3 hundredths.

Len has 5 tenths and 3 hundredths.

A. $\frac{53}{100}$ B. $\frac{35}{100}$ C. $\frac{33}{100}$

D PS

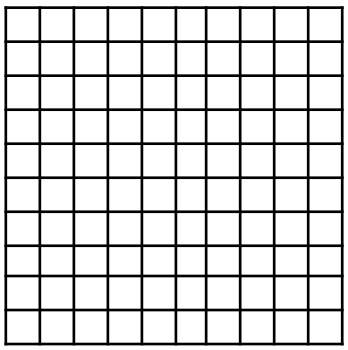
3a. You have 85 hundredths already. How many more hundredths do you need to make one whole?



Record your answer as a fraction.

D PS

3b. You have 65 hundredths already. How many more hundredths do you need to make one whole?

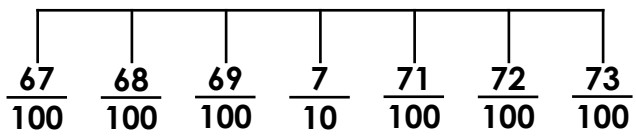


Record your answer as a fraction.

D PS

Hundredths

4a. Ollie has completed this section of a number line below.



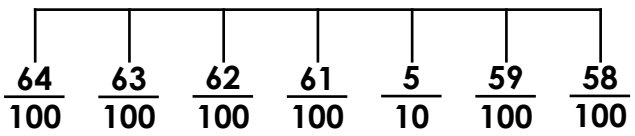
Is he correct? Explain how you know.

E

R

Hundredths

4b. Cally has completed this section of a number line below.



Is she correct? Explain how you know.

E

R

5a. Match the child to the correct number.

Sasha has 3 tenths and 7 hundredths.

Tom has 4 tenths and 13 hundredths.

Lottie has 6 tenths and 8 hundredths.

A. $\frac{68}{100}$ B. $\frac{37}{100}$ C. $\frac{53}{100}$

E

PS

5b. Match the child to the correct number.

Tara has 9 tenths and 2 hundredths.

Rick has 6 tenths and 9 hundredths.

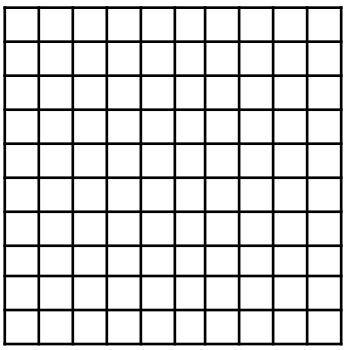
Maggie has 8 tenths and 14 hundredths.

A. $\frac{69}{100}$ B. $\frac{94}{100}$ C. $\frac{92}{100}$

E

PS

6a. You have 4 tenths and 3 hundredths already. How many more tenths and hundredths do you need to make one whole?

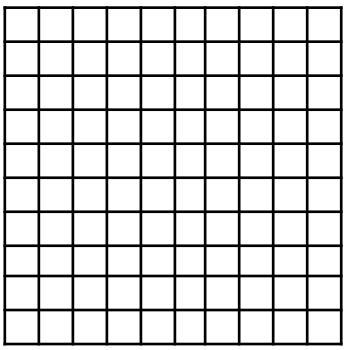


Record your answer as a fraction.

E

PS

6b. You have 6 tenths and 7 hundredths already. How many more tenths and hundredths do you need to make one whole?



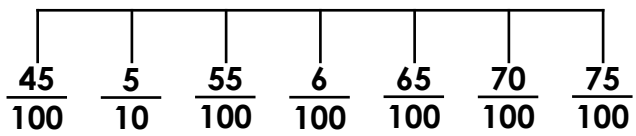
Record your answer as a fraction.

E

PS

Hundredths

7a. Giles has completed this section of a number line below.

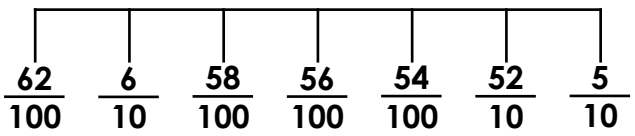


Is he correct? Explain how you know.

GD R

Hundredths

7b. Ellie has completed this section of a number line below.



Is she correct? Explain how you know.

GD R

8a. Match the child to the correct number.

Marty has 2 tenths and 28 hundredths.

Vic has 2 tenths and 18 hundredths.

Keisha has 3 tenths and 28 hundredths.

A. $\frac{48}{100}$ B. $\frac{58}{100}$ C. $\frac{38}{100}$

GD PS

8b. Match the child to the correct number.

Lola has 4 tenths and 16 hundredths.

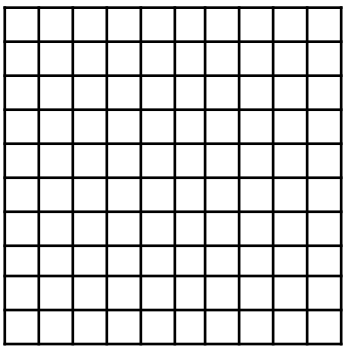
Jack has 4 tenths and 36 hundredths.

Edris has 5 tenths and 36 hundredths.

A. $\frac{86}{100}$ B. $\frac{76}{100}$ C. $\frac{56}{100}$

GD PS

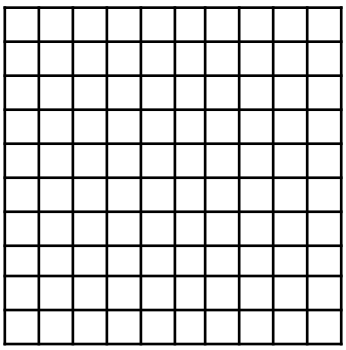
9a. You have 7 tenths and 26 hundredths already. How many more tenths or hundredths do you need to make one whole?



Record your answer as a fraction.

GD PS

9b. You have 8 tenths and 14 hundredths already. How many more tenths or hundredths do you need to make one whole?



Record your answer as a fraction.

GD PS

Reasoning and Problem Solving Hundredths

Developing

1a. Stan is incorrect as $\frac{40}{100}$ should be $\frac{50}{100}$

2a. Don = C, Mia = A, and Ken = B

3a. $\frac{15}{100}$

Expected

4a. Ollie is correct as $\frac{7}{10}$ is equivalent to $\frac{70}{100}$.

5a. Sasha = B, Tom = C and Lottie = A

6a. $\frac{5}{10}$ and $\frac{7}{100}$, or $\frac{57}{100}$

Greater Depth

7a. Giles is incorrect as $\frac{6}{100}$ should be $\frac{6}{10}$ or $\frac{60}{100}$

8a. Marty = A, Vic = C and Keisha = B

9a. $\frac{4}{100}$

Reasoning and Problem Solving Hundredths

Developing

1b. Mel is incorrect as she has missed $\frac{76}{100}$

2b. Kai = B, Sue = C and Len = A

3b. $\frac{35}{100}$

Expected

4b. Cally is incorrect as $\frac{5}{10}$ should be $\frac{6}{10}$ or $\frac{60}{100}$.

5b. Tara = C, Rick = A and Maggie = B

6b. $\frac{3}{10}$ and $\frac{3}{100}$, or $\frac{33}{100}$

Greater Depth

7b. Ellie is incorrect as $\frac{52}{10}$ should be $\frac{52}{100}$

8b. Lola = C, Jack = B and Edris = A

9b. $\frac{6}{100}$