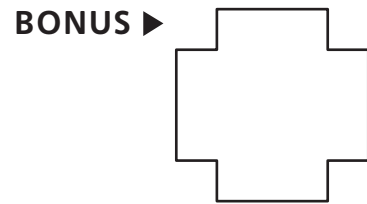
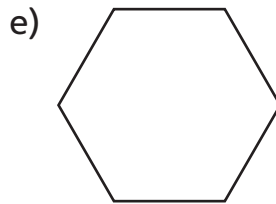
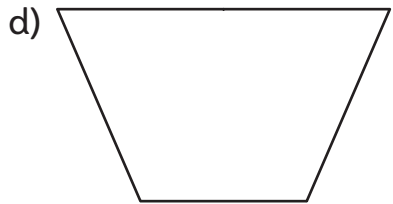
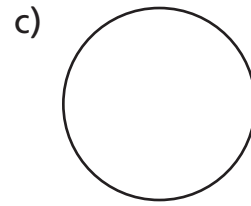
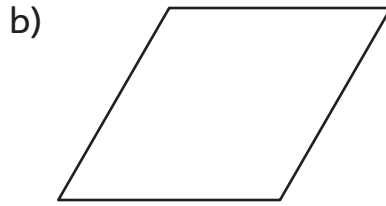
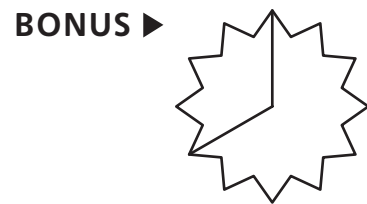
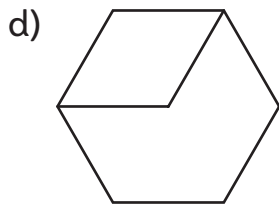
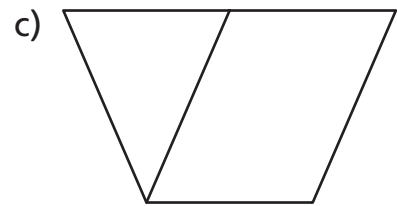
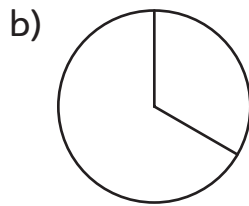


NS3-67 Different Shapes, Same Fractions

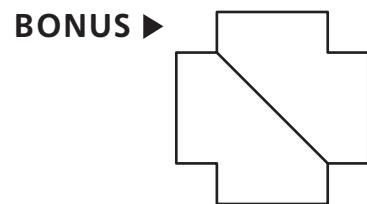
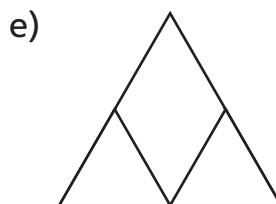
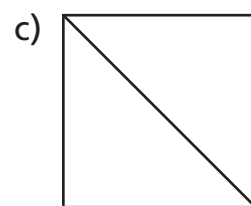
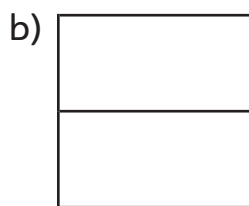
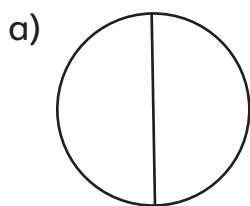
1. Draw a line to create 2 equal parts. Then shade $\frac{1}{2}$ of the whole.



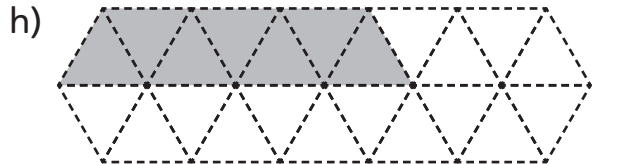
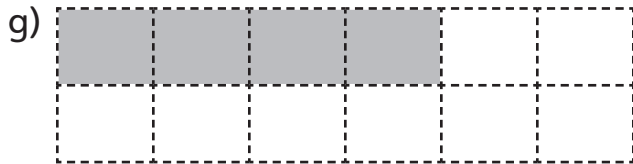
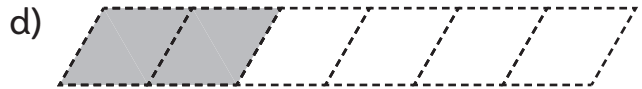
2. Draw a line to create 3 equal parts. Then shade $\frac{2}{3}$ of the whole.



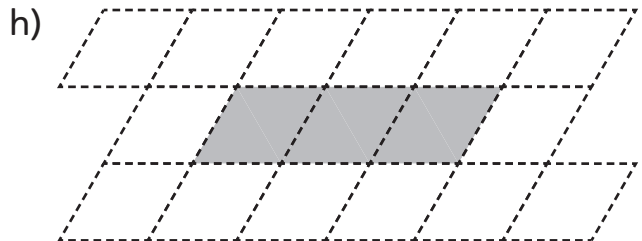
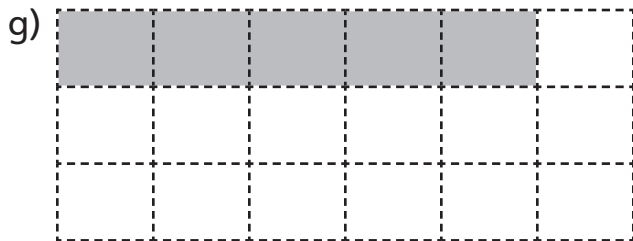
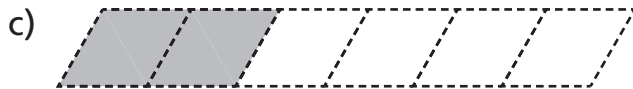
3. Draw a line to create 4 equal parts. Then shade $\frac{3}{4}$ of the whole.



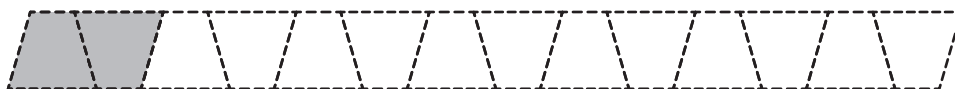
4. One half of a shape is shaded. Outline the whole shape.



5. One third of a shape is shaded. Outline the whole shape.

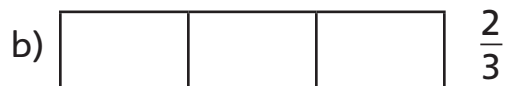


BONUS ▶ One fourth of a shape is shaded. Outline the whole shape.

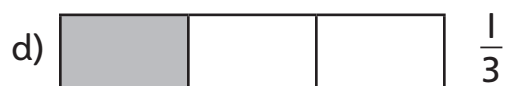


NS3-69 Comparing Fractions

1. Shade the fraction of the strip.



2. Which strip has more shaded? Circle the greater fraction.

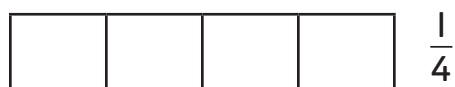
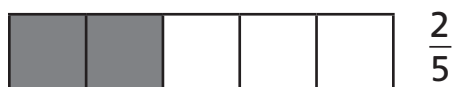
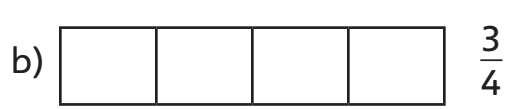


To compare fractions, the wholes must be the same.

$\frac{7}{8}$ is greater than $\frac{3}{8}$ because more of the whole is shaded.



3. Shade the fractions of the strips. Then circle the greater fraction.



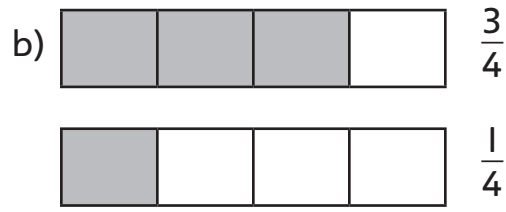
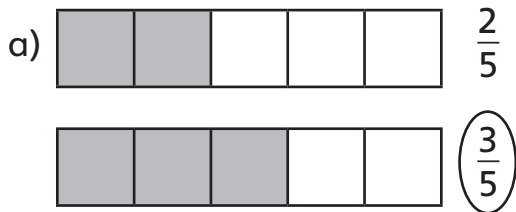
4. Shade the fractions of the strips. Then circle the smaller fraction.



“5 is greater than 3” is written as $5 > 3$.

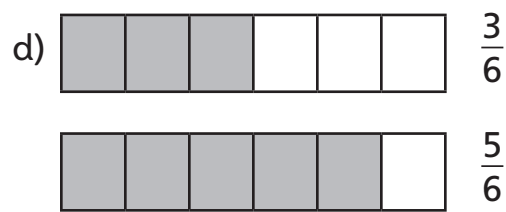
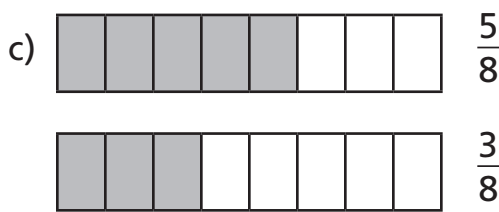
“3 is less than 5” is written as $3 < 5$.

5. Circle the greater fraction. Then use the correct sign ($<$ or $>$) to compare the fractions.



$\frac{2}{5} < \frac{3}{5}$

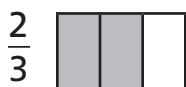
$\frac{3}{4} \square \frac{1}{4}$



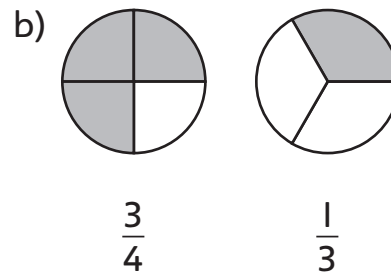
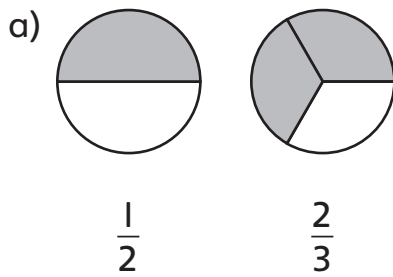
$\frac{5}{8} \square \frac{3}{8}$

$\frac{3}{6} \square \frac{5}{6}$

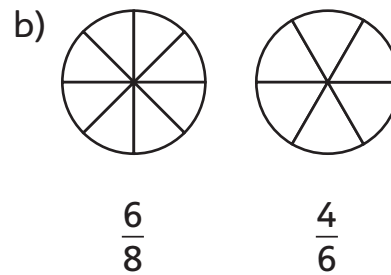
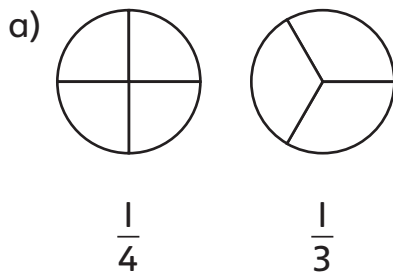
6. Jessica looked at the pictures and said that $\frac{1}{3} > \frac{2}{3}$. Explain her mistake.



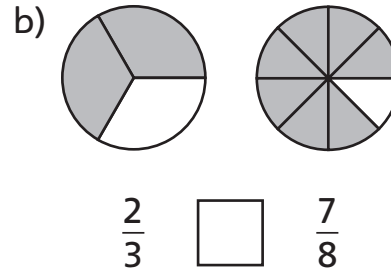
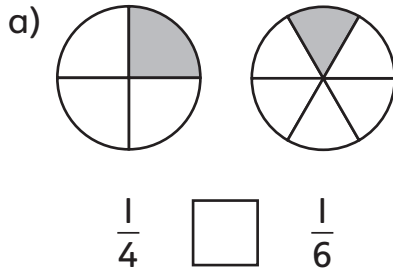
7. Find the circle that has more shaded. Circle the greater fraction.



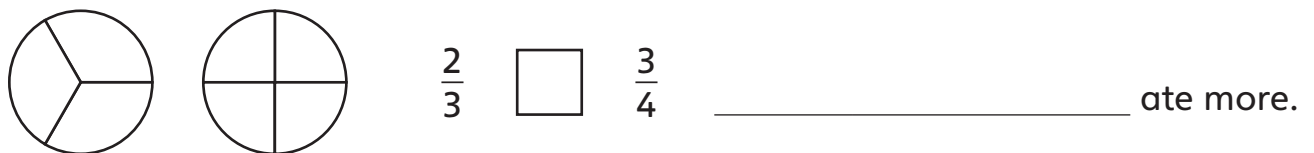
8. Shade the fraction of the circle. Circle the smaller fraction.



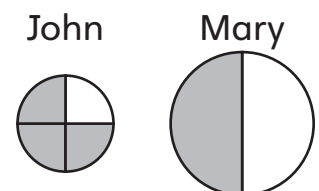
9. Circle the larger fraction. Then use the correct sign (< or >) to compare them.



10. Lily and Ed have two pizzas of equal size. Lily ate two thirds of her pizza. Ed ate three quarters of his pizza. Which fraction is bigger? Who ate more?



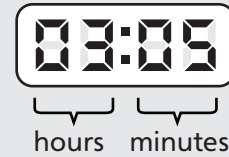
11. John thinks he has more pizza than Mary because $\frac{3}{4} > \frac{1}{2}$. Is he correct? Explain.



ME3-14 Digital Clocks

Digital clocks show both the hours and the minutes with two digits. The digital clock shows that 5 minutes have passed after 3 o'clock.

We say the time is 3:05 or 5 minutes past 3.



1. Write the time in numbers.



2:17





2. Write the time in words and numbers.



15 minutes past 7





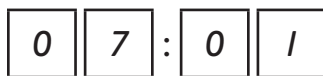






3. Write the time the way it looks on a digital clock.

a) 7:01



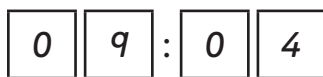
b) 4:15



c) 3:08



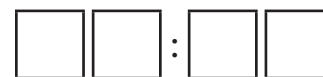
d) 4 minutes past 9



e) 12 minutes past 12



f) 9 minutes past 11



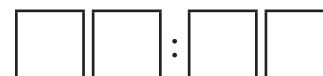
g) 23 minutes past 2



h) 30 minutes past 6



i) 1 minute past 2



ME3-2I Intervals of Time

1 week = 7 days

1 day = 24 hours

1 hour = 60 minutes

1. Skip count to fill in the table.

a)

Weeks	Days
1	
2	
3	

b)

Days	Hours
1	
2	
3	

c)

Hours	Minutes
1	
2	
3	

2. a) Nina's birthday is in 2 weeks. How many days until Nina's birthday? _____

b) A weekend is 2 days long. How many hours long is one weekend? _____

3. A train ride from Toronto to Vancouver takes 87 hours. How long is the trip? Circle the correct answer.

between 2 and 3 days

between 3 and 4 days

between 4 and 5 days

4. A test is 90 minutes long.

a) Is the test longer than 1 hour? _____

b) Is the test longer than 2 hours? _____

5. Ronin walks his dog 3 times a day, 20 minutes each time.

a) How many minutes does he walk his dog in one day? _____

b) How many hours does he walk his dog in one day? _____

c) How many hours each week does Ronin spend walking his dog? _____

6. Zara exercises 40 minutes every day.

a) How many minutes does she exercise in one week?

Hint: Skip count by 40. _____

b) A doctor says Zara should exercise at least 3 hours a week.

Does she exercise enough? _____

7. Multiply by 7 to convert weeks to days. Add the leftover days.

a) 2 weeks 3 days

$$2 \text{ weeks} = \underline{14} \text{ days}$$

2 weeks 3 days

$$= \underline{14 + 3} \text{ days}$$

$$= \underline{17} \text{ days}$$

b) 3 weeks 2 days

$$3 \text{ weeks} = \underline{\quad\quad} \text{ days}$$

3 weeks 2 days

$$= \underline{\quad\quad\quad} \text{ days}$$

$$= \underline{\quad\quad} \text{ days}$$

c) 4 weeks 5 days

$$4 \text{ weeks} = \underline{\quad\quad} \text{ days}$$

4 weeks 5 days

$$= \underline{\quad\quad\quad} \text{ days}$$

$$= \underline{\quad\quad} \text{ days}$$

d) 1 week 5 days

$$= \underline{\quad\quad\quad} \text{ days}$$

$$= \underline{\quad\quad} \text{ days}$$

e) 3 weeks 6 days

$$= \underline{\quad\quad\quad} \text{ days}$$

$$= \underline{\quad\quad} \text{ days}$$

f) 5 weeks 1 day

$$= \underline{\quad\quad\quad} \text{ days}$$

$$= \underline{\quad\quad} \text{ days}$$

BONUS ► Circle the time periods in Question 7 that are longer than 1 month.

8. Change the hours to minutes. Add the leftover minutes.

a) 2 hours 3 minutes

$$= \underline{120 + 3} \text{ minutes}$$

$$= \underline{123} \text{ minutes}$$

b) 3 hours 20 minutes

$$= \underline{\quad\quad\quad} \text{ minutes}$$

$$= \underline{\quad\quad} \text{ minutes}$$

c) 4 hours 15 minutes

$$= \underline{\quad\quad\quad} \text{ minutes}$$

$$= \underline{\quad\quad} \text{ minutes}$$

d) 1 hour 55 minutes

e) 3 hours 30 minutes

f) 5 hours 1 minute

9. Tom reads a book for 1 hour 45 minutes. Kathy reads a book for 115 minutes. Who spends more time reading? How much longer does this person read?

10. There are 52 weeks in 1 year.

a) Iva is exactly 2 years old. How many weeks old is Iva?

b) Lewis is 42 weeks old. Nora is 30 weeks older than Lewis. Who is older, Nora or Iva? Explain.

c) Marcel is 6 weeks younger than Iva. Who is older, Nora or Marcel? Explain.

11. A decade is 10 years long. A century is 100 years long. A millennium is 1000 years long. If a ones block represents 1 year, what do the other base ten blocks represent?

NS3-7I Rounding Tens

Multiples of 10 are the numbers you say when counting by tens starting at 0.
0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, and so on.

1. Find the multiple of 10 that comes after the number.

a) 23, 30 b) 64, _____ c) 78, _____ **BONUS** ► 101, _____

2. Find the multiple of 10 that comes before the number.

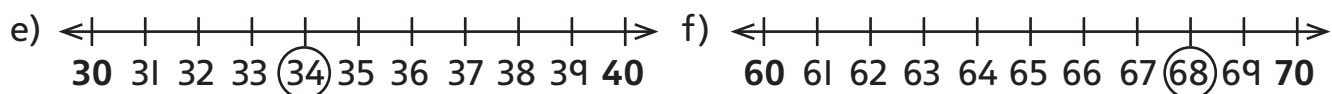
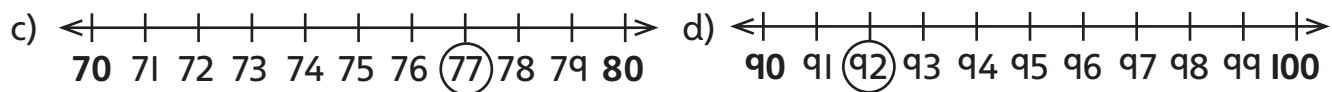
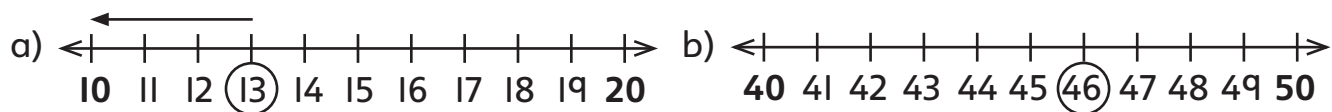
a) 40, 46 b) _____, 85 c) _____, 22 **BONUS** ► _____, 109

3. Find the multiples of 10 before and after the number.

a) 40, 43, 50 b) _____, 67, _____ c) _____, 18, _____

d) _____, 71, _____ e) _____, 7, _____ f) _____, 35, _____

4. Draw an arrow to show if the circled number is closer to the multiple of 10 that comes before or after the number.



5. Look at your answers to Question 4.

a) List the ones digits of the numbers that are closer to the **previous** multiple of 10. _____

b) List the ones digits of the numbers that are closer to the **next** multiple of 10. _____

c) Why are the numbers with a ones digit of 5 a special case?

When **rounding** to the nearest multiple of 10:

- if the ones digit is 1, 2, 3, or 4, **round down** to the previous multiple of 10.
- if the ones digit is 5, 6, 7, 8, or 9, **round up** to the next multiple of 10.

Examples: 53 rounds down to 50. 47 rounds up to 50.

6. Round to the nearest multiple of 10. Circle the answer.

- a) 58 is rounded to 50 or **(60)** b) 32 is rounded to 30 or 40
- c) 64 is rounded to 60 or 70 d) 21 is rounded to 20 or 30
- e) 77 is rounded to 70 or 80 f) 25 is rounded to 20 or 30

7. Find the previous and the next multiple of 10. Which would you round the number to? Circle it.

- a) 27 20 or **(30)** b) 43 _____ or _____
- c) 89 _____ or _____ d) 65 _____ or _____
- e) 14 _____ or _____ f) 7 _____ or _____

8. Round to the nearest ten.

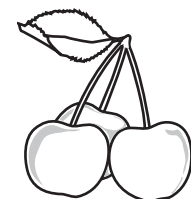
- a) 62 b) 47
- c) 39 d) 21

9. Simon has 87 baseball cards. Rounded to the nearest ten, how many baseball cards does he have? _____



10. Tessa's mother worked 43 hours last week. Rounded to the nearest ten, how many hours did she work? _____

11. Jack picked 76 cherries for his basket. Rounded to the nearest ten, how many cherries did he pick? _____



NS3-72 Estimating

REMINDER ▶ To round to the nearest ten, look at the ones digit.

Round down if the ones digit is 1, 2, 3, or 4.

Round up if the ones digit is 5, 6, 7, 8, or 9.

Examples: 84 rounds to 80. 27 rounds to 30.

1. Round to the nearest ten.

a) 14

b) 28

c) 72

d) 39

e) 17

f) 45

2. Round to the nearest ten, then add or subtract.

a)
$$\begin{array}{r} 52 \rightarrow \\ + 34 \rightarrow + \\ \hline \end{array}$$

50
30
80

b)
$$\begin{array}{r} 19 \rightarrow \\ + 65 \rightarrow + \\ \hline \end{array}$$

c)
$$\begin{array}{r} 47 \rightarrow \\ - 34 \rightarrow - \\ \hline \end{array}$$

When you round numbers to the nearest ten and then calculate, you **estimate** the answer.

3. Estimate by rounding each number to the nearest ten.

a) $32 + 28$

b) $74 - 33$

c) $39 + 25$

30 + 30 = 60

d) $59 - 41$

e) $37 + 28$

f) $68 - 29$

BONUS ▶

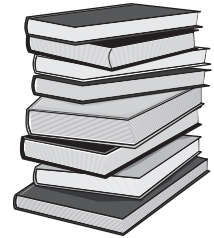
g) $23 + 37 + 17$

h) $59 - 21 + 48$

i) $48 - 21 - 12$

- 4.** Students collected donated coats. Round each number to the nearest ten. Add to estimate the answer.
- a) Cody collected 34 coats and Ava collected 23 coats. How many coats did they collect altogether?
- b) Shelly collected 86 coats and Jin collected 18 coats. How many coats did they collect altogether?

- 5.** Students collected books to raise money for charity. Round each number to the nearest ten to estimate the difference between the numbers collected.
- a) Nina collected 58 books. David collected 43 books.
- b) Marcel collected 84 books. Alexa collected 72 books.



- 6.** Kathy brought 46 muffins to school for a bake sale. Josh brought 37 muffins. Estimate the total number of muffins by rounding each number to the nearest ten.

- 7.** There are 76 cars parked in the front parking lot of the arena. There are 39 cars parked in the rear parking lot. Round each number to the nearest ten to estimate how many more cars are parked in the front parking lot than in the rear parking lot.

- 8.** During a food drive, Sandy's class brought in the number of cans shown in the table. Round each number to the nearest ten to estimate the total number of cans brought in for the week.

Monday	Tuesday	Wednesday	Thursday	Friday
19	21	11	28	14

- 9.** Eddy's father travels a total of 19 km each weekday to go to work and return home. Estimate the total distance he travels from Monday to Friday using addition.

BONUS ► Use multiplication to estimate the total distance he travels in a week.

NS3-78 Counting On by Two or More Coin Values

1. Write the numbers in order from greatest to least.

a) 10, 25, 25, 5, 1

25, 25, 10, 5, 1

b) 5, 1, 10, 25, 10, 5

_____, _____, _____, _____, _____, _____

c) 5, 25, 10, 1, 5




_____, _____, _____, _____, _____





d) 25, 10, 5, 25, 1, 5

_____, _____, _____, _____, _____, _____

2. Write the value of the coins in order from greatest value to least value.

a)    

b)    

c)    

d)    

3. Count on to find the total.

a) $\frac{25}{\text{Count by 25s.}}$ | $\frac{60}{\text{Count by 10s.}}$ | $\frac{\quad}{\text{Count by 5s.}}$

b) $\frac{10}{\text{Count by 10s.}}$ | $\frac{\quad}{\text{Count by 5s.}}$ | $\frac{\quad}{\text{Count by 1s.}}$

c) $\frac{25}{\text{Count by 25s.}}$ | $\frac{\quad}{\text{Count by 5s.}}$ | $\frac{\quad}{\text{Count by 1s.}}$

d) $\frac{25}{\text{Count by 25s.}}$ | $\frac{\quad}{\text{Count by 10s.}}$ | $\frac{\quad}{\text{Count by 5s.}}$ | $\frac{\quad}{\text{Count by 1s.}}$

4. Count on by the first coin value given and then by the next coin value.



a) _____, _____, _____, _____



b) _____, _____, _____, _____, _____



c) _____, _____, _____, _____



d) _____, _____, _____, _____, _____



e) _____, _____, _____, _____



f) _____, _____, _____, _____, _____

5. Write the value of the coins in order from greatest value to least value. Then count on to find the total amount.

a) 10c 25c 10c 25c

25c 25c 10c 10c

_____ , _____ , _____ , _____

b) 5c 25c 5c 5c

_____ , _____ , _____ , _____

c) 25c 10c 25c 25c

_____ , _____ , _____ , _____

d) 5c 25c 5c 25c

_____ , _____ , _____ , _____

e) 5c 10c 25c 5c

_____ , _____ , _____ , _____

f) 10c 25c 5c 10c

_____ , _____ , _____ , _____

6. What is the total amount in cents? Count on by the greatest coin value first.



Total amount = _____



Total amount = _____



Total amount = _____



Total amount = _____



Total amount = _____

7. Write the name of the coin that has the same value as the given coins.











8. Estimate the total value of the coins in cents. Count the value to check your answer.

	Coins	Estimate	Actual Value
a)			
b)			

9. Evan has 4 dimes, 3 quarters, and 2 nickels. How much money does he have?