Name: _____

Advanced Division

$94\overline{)5{,}748}$	$67\overline{)3{,}917}$	$14\overline{)8{,}759}$
$26\overline{)926}$	$63\overline{)216}$	$52\overline{)4{,}849}$
$28\overline{)285}$	$25\overline{)373}$	$55\overline{)1{,}967}$
$18\overline{)7{,}098}$	$34\overline{)189}$	$43\overline{)1{,}899}$

ANSWER KEY

Advanced Division

61 r14 94) 5,748	**58 r31** 67) 3,917	**625 r9** 14) 8,759
35 r16 26) 926	**3 r27** 63) 216	**93 r13** 52) 4,849
10 r5 28) 285	**14 r23** 25) 373	**35 r42** 55) 1,967
394 r6 18) 7,098	**5 r19** 34) 189	**44 r7** 43) 1,899

Name: _____

Multiplication

844 x 776	969 x 136	720 x 53
905 x 129	177 x 827	122 x 945
162 x 63	937 x 354	401 x 21
888 x 128	642 x 397	535 x 859

ANSWER KEY

Multiplication

844 x 776 **654,944**	969 x 136 **131,784**	720 x 53 **38,160**
905 x 129 **116,745**	177 x 827 **146,379**	122 x 945 **115,290**
162 x 63 **10,206**	937 x 354 **331,698**	401 x 21 **8,421**
888 x 128 **113,664**	642 x 397 **254,874**	535 x 859 **459,565**

Name: _____

Have You Got a Buck?

by Mikki Sadil

Have you ever heard the expression "gotta buck"? It refers to the one dollar bill, and although nobody seems to know how "buck" came to mean a dollar, the term has been around for a very long time. We call bills like the dollar ($1, $5, $10, $20, $50, and $100) *paper money*, but they're really not paper. They are made out of material, just like clothes, with tiny blue and red fibers running through them. Have you ever left a dollar in your jeans just before your mom washed them? I'll bet the dollar always came out okay, didn't it? That's because this special material is printed with a secret kind of waterproof ink that won't run.

If you have a dollar bill, take it out so you can look at it as we go along. If you don't, you can use the picture below.

The front of the bill is called the obverse side. To the right of George Washington, you'll see the U.S. Treasury Department Seal. On top of the seal is a scale that represents justice. In the center of the seal is a chevron with thirteen stars. Beneath that is the key to represent authority and trust.

Now turn the bill over. What do you see?

On the reverse side, you will see two circles which represent the Great Seal of the United States. Let's first talk about the left-hand circle. This is actually the back, or reverse side of the Great Seal.

You'll see a pyramid with the front lighted, but the Western side is dark. That dark side means we didn't know much about the West at that time. The Pyramid is uncapped, which means the U.S. was a new country and wasn't completely explored yet.

Inside the capstone of the pyramid is the "all-seeing eye", an ancient symbol of religion. Benjamin Franklin, who helped design the seal, believed that one man couldn't build a nation all by himself, but a group of men, with the help of God, could do anything.

The Latin words above and below the pyramid mean "God has favored our undertaking," and "A new order has begun." At the base of the Pyramid is the Roman numeral for the year 1776, the year the Declaration of Independence was signed.

Now look at the right-hand circle. This is the front, or obverse side of the Great Seal. In the eagle's beak are the Latin words, "E PLURIBUS UNUM." This means, "one nation made of many states."

Stars and stripes are symbols for our country you're probably familiar with. On the Great seal, there are stars over the eagle's head and stripes on the shield that make up its body.

The eagle holds an olive branch in his right talon, which means that our country strives for peace. It also holds arrows in his left talon, which means we are willing to fight to protect that peace. Notice that the eagle's head is looking to the left, in the same direction of the olive branch. This shows that our country prefers peace over war.

Have you noticed the number *thirteen* comes up a lot? Some people consider 13 an unlucky number, but it's really a symbolic number for our country. The United States was started from 13 colonies and there were 13 original states. Our flag even has 13 red and white stripes on it. On the reverse side of the one-dollar bill, you will notice lots of thirteens:

- **13** stars above the eagle
- **13** bars on the shield
- **13** leaves on the olive branch
- **13** steps on the pyramid
- **13** olives on the olive branch
- **13** arrows
- **13** pearls next to the seal and the pyramid

So the next time one of your friends talks about how the number 13 is unlucky, ask him to take out a dollar bill, and show him what *thirteen* really means to an American!

Name: _____

Have You Got a Buck?

1. What does the picture to the right show?

- **a.** the front side of the dollar bill
- **b.** the obverse side of the Great Seal of the United States
- **c.** the reverse side of the Great Seal of the United States
- **d.** the back side of the Great Seal of the United States

2. On the front of the dollar bill is a picture of...

- **a.** the Great Seal of the United States
- **b.** several presidents
- **c.** the Seal of the Treasury Department
- **d.** an eagle and a pyramid

3. What does the eye on the back of a dollar bill symbolize?

- **a.** the importance of the Egyptian pyramids
- **b.** our country's preference for peace
- **c.** the president looking over our country
- **d.** religion

4. What does the Latin phrase, "E PLURIBUS UNUM" mean?

_____

5. Describe the symbolism of the arrows and the olive branch. Also, explain why the eagle's head is looking to the left.

_____

_____

_____

_____

Name: _____

Have You Got a Buck?

Match each vocabulary word on the left with its definition on the right.

1. _____ buck

2. _____ fibers

3. _____ chevron

4. _____ obverse

5. _____ reverse

6. _____ Latin

7. _____ pyramid

8. _____ Treasury

9. _____ olive branch

10. _____ jeans

a. language spoken by ancient Romans

b. large building with a square base and triangular sides

c. slang term for a dollar

d. symbol shaped like a V or an upside-down V

e. symbol for peace

f. type of pants made of denim

g. small threads

h. front side

i. back side

j. the government department responsible for budgeting and managing our country's money

ANSWER KEY

Have You Got a Buck?

1. What does the picture to the right show? **b**

- **a.** the front side of the dollar bill
- **b.** **the obverse side of the Great Seal of the United States**
- **c.** the reverse side of the Great Seal of the United States
- **d.** the back side of the Great Seal of the United States

2. On the front of the dollar bill is a picture of... **c**

- **a.** the Great Seal of the United States
- **b.** several presidents
- **c.** **the Seal of the Treasury Department**
- **d.** an eagle and a pyramid

3. What does the eye on the back of a dollar bill symbolize? **d**

- **a.** the importance of the Egyptian pyramids
- **b.** our country's preference for peace
- **c.** the president looking over our country
- **d.** **religion**

4. What does the Latin phrase, "E PLURIBUS UNUM" mean?

one nation made of many states

5. Describe the symbolism of the arrows and the olive branch. Also, explain why the eagle's head is looking to the left.

The olive branch is a symbol of peace. The arrows are a symbol for war, showing that we will fight if necessary. The eagle is looking to the left to show our preference for peace.

ANSWER KEY

Have You Got a Buck?

Match each vocabulary word on the left with its definition on the right.

1. **c** buck
2. **g** fibers
3. **d** chevron
4. **h** obverse
5. **i** reverse
6. **a** Latin
7. **b** pyramid
8. **j** Treasury
9. **e** olive branch
10. **f** jeans

a. language spoken by ancient Romans

b. large building with a square base and triangular sides

c. slang term for a dollar

d. symbol shaped like a V or an upside-down V

e. symbol for peace

f. type of pants made of denim

g. small threads

h. front side

i. back side

j. the government department responsible for budgeting and managing our country's money

Name: _____

Now That's Gross!

By Belinda Vickers Givens

Have you ever heard your mom say, "Close the door so flies don't get in!"? Or maybe she's said, "Please fan those flies!" If you have ever been warned to keep the flies away, there is a very good reason to heed those warnings.

There are more than 100,000 different species of flies, but the most common is the housefly. These small pesky insects can live and thrive in any habitat where humans survive, which means they are present on every continent on Earth. Although houseflies have a very short lifespan, averaging only about a month, their rapid rate of reproduction ensures that they will be around for a very long time.

Flies are considered pests, not only due to the characteristic buzzing sounds that they make, but primarily because they spread numerous diseases. Houseflies have been known to carry a wide range of dangerous pathogens including viruses, bacteria, fungi, and more. These harmful pathogens are transmitted rapidly by flies as they land on contaminated garbage, manure, and other sources of waste and then land on food that will be consumed by humans. Houseflies have been linked to severe cases of food poisoning, diarrhea, typhoid fever, tuberculosis, and parasitic worms to name just a few.

Houseflies are generally gray or black in color with a single pair of wings. They have very prominent red eyes that have thousands of individual lenses, which allows them to see at a wider angle. The female housefly is larger than the male and can lay 100 tiny eggs at a time. These eggs hatch after only twelve to twenty-four hours into larvae known as maggots. Maggots are small, white, legless creatures with a worm-like appearance. They thrive on rotting food, decomposing animal carcasses, and waste. The larvae stage lasts for approximately two to five days before the maggots transform into reddish-brown pupas.

Houseflies do not have teeth or stingers, and therefore do not bite. They do have very long tongues that they use to suck up their food, very similar to a straw. In order to feed on solid food sources, they must liquify them first. When a housefly lands on your food, it vomits on the food to release an acid that dissolves the food. This allows the fly to suck the food up with its tongue – now that's gross! So please be sure to listen to your mom the next time she frantically says, "Don't let those flies land on your food!"

About the Author

Belinda Givens is an ASHA certified Speech Language Pathologist with an endorsement in Reading. She is a published children's book author and her passion is language and literacy. She is the mother of three amazing young boys who inspire her in incredible ways. You may enjoy reading Belinda's books, The Adventures of Demdem the Garbage Truck - Watch Out for the Bumps and I Am Blessed to Have You.

Name: _____

Now That's Gross!

By Belinda Vickers Givens

1. According to the information in the article, why are there so many flies on our planet if each fly only lives for about one month on average?

_____

_____

2. Complete the flow chart below to show how flies can spread diseases.

A housefly lands on contaminated garbage, manure, or other waste.

_____

_____

3. Based on the information you learned in the article, identify the four stages in a housefly's life cycle.

1. _____

2. _____

3. _____

4. _____

Name: _____

Now That's Gross!

By Belinda Vickers Givens

The following terms are vocabulary words from the article.
Match the vocabulary word with its correct definition by writing the corresponding letter on the line.

1.	_____ liquify	**a.** bacteria, viruses, or other microorganisms that can cause disease
2.	_____ prominent	**b.** made impure by added pollutants
3.	_____ frantically	**c.** passed on from one person or place to the next
4.	_____ pathogens	**d.** turn into liquid
5.	_____ decomposing	**e.** replicating more of something
6.	_____ transmitted	**f.** extreme
7.	_____ contaminated	**g.** the length of time an animal or insect lives
8.	_____ severe	**h.** protruding; bulging; standing out
9.	_____ reproduction	**i.** decaying or rotting
10.	_____ lifespan	**j.** in a distressed way; anxiously

Name: _____

Now That's Gross!

By Belinda Vickers Givens

In the article, "Now That's Gross!" you learned why many people consider houseflies to be pests. Namely, in addition to their irritating buzzing sound, they are capable of spreading diseases by contaminating food with harmful pathogens.

On the lines below, answer the following question: Do you think if there were no flies on Earth, this would be better for our planet, or worse? Explain your answer. Carefully consider the information you learned in the article, as well as your knowledge of ecosystems and the environment when you share your opinion.

ANSWER KEY

Now That's Gross!

By Belinda Vickers Givens

1. According to the information in the article, why are there so many flies on our planet if each fly only lives for about one month on average?

Flies reproduce very rapidly, so even though they only live for a short time, their populations replenish quickly.

2. Complete the flow chart below to show how flies can spread diseases.

A housefly lands on contaminated garbage, manure, or other waste.

↓

The housefly lands on food that will be consumed by humans.

↓

A person eats the contaminated food and contracts a disease.

3. Based on the information you learned in the article, identify the four stages in a housefly's life cycle.

1. **egg**
2. **maggot/larva**
3. **pupa**
4. **housefly**

ANSWER KEY

Now That's Gross!

By Belinda Vickers Givens

The following terms are vocabulary words from the article.
Match the vocabulary word with its correct definition by writing the corresponding letter on the line.

1.	d	liquify	**a.** bacteria, viruses, or other microorganisms that can cause disease
2.	h	prominent	**b.** made impure by added pollutants
3.	j	frantically	**c.** passed on from one person or place to the next
4.	a	pathogens	**d.** turn into liquid
5.	i	decomposing	**e.** replicating more of something
6.	c	transmitted	**f.** extreme
7.	b	contaminated	**g.** the length of time an animal or insect lives
8.	f	severe	**h.** protruding; bulging; standing out
9.	e	reproduction	**i.** decaying or rotting
10.	g	lifespan	**j.** in a distressed way; anxiously

LK

Name: _____

Solving One-Step Equations

Addition and Subtraction

Solve each equation to find the value of the variable.

1. $1.25 = 0.75 + r$

_____

2. $c - 0.45 = 1.20$

_____

3. $4.35 = a + 3.25$

_____

4. $h - 3.5 = 9$

_____

5. $2.2 = x - 1.1$

_____

6. $7 = 0.25 + y$

_____

7. $b + 1.5 = 6$

_____

8. $d - 2.75 = 7.25$

_____

9. $8.15 = e + 6$

_____

10. $1.5 = 0.25 + g$

_____

11. $f + 2.6 = 5.8$

_____

12. $m - 0.5 = 0.75$

_____

13. $10 = r + 3.75$

_____

14. $v - 0.45 = 6.15$

_____

15. $7.25 = w - 1.5$

_____

ANSWER KEY

Solving One-Step Equations

Addition and Subtraction

Solve each equation to find the value of the variable.

1. $1.25 = 0.75 + r$

r = 0.50

2. $c - 0.45 = 1.20$

c = 1.65

3. $4.35 = a + 3.25$

a = 1.10

4. $h - 3.5 = 9$

h = 12.5

5. $2.2 = x - 1.1$

x = 3.3

6. $7 = 0.25 + y$

y = 6.75

7. $b + 1.5 = 6$

b = 4.5

8. $d - 2.75 = 7.25$

d = 10

9. $8.15 = e + 6$

e = 2.15

10. $1.5 = 0.25 + g$

g = 1.25

11. $f + 2.6 = 5.8$

f = 3.2

12. $m - 0.5 = 0.75$

m = 1.25

13. $10 = r + 3.75$

r = 6.25

14. $v - 0.45 = 6.15$

v = 6.60

15. $7.25 = w - 1.5$

w = 8.75

KH