

Math Whiz Unit 1 Mastery

Number System Fluency

Name: _____

Class Period: 1 2 3 4 Date: _____

Dividing Fractions

- 1) The county recreation department cleared a $\frac{3}{4}$ mile long walking trail in Washington Park. There will be a small sign every $\frac{1}{12}$ mile along the trail. How many signs are needed?
A) 4 B) 9 C) 10 D) 12
- 2) Ryan bought $2\frac{1}{4}$ pounds of almonds and divided them into bags with $\frac{1}{8}$ pound in each bag. How many bags was Ryan able to fill?
A) 16 B) 18 C) $\frac{9}{32}$ D) $2\frac{1}{32}$
- 3) What is the value of the expression $\frac{3}{8} \div 1\frac{1}{2}$?
A) 4 B) 5 C) $\frac{1}{4}$ D) $2\frac{9}{16}$
- 4) Keisha cuts a $\frac{2}{3}$ foot rope into $\frac{1}{12}$ foot pieces. How many pieces of rope was she able to cut? Hint: **KCF**
A) 4 B) 6 C) 8 D) 12

Long Division

- 5) A local bank donated 4,074 pencils to distribute to the 42 sixth grade classes in the district. How many pencils did each class receive?
A) 90 B.) 97 C) 102 D) 907
- 6) Charlotte read a 608 page book in 16 hours last month. How many pages per hour was that?
A) 3.8 B) 38 C) 48 D) 9,728

Decimal Operations

- 7) What is 16.44 divided by 2.4?
A. 6.85 B. 68.5 C. 685 D. 6,850

- 8) A cheetah can run 112.65 kilometers per hour. A pronghorn antelope can run 98.1 kilometers per hour. **How much faster** is the cheetah than the antelope?
A. 10.284 B. 14.55 C. 102.84 D. 210.75
- 9) On a field trip, a 6th grade class traveled 19.955 kilometers by train, 7 kilometers by bus, and 2.3 kilometers by car. How far did they travel **all together**?
A. 19,985 km B. 22.955 km C. 29.255 km D. 1.12985 km
- 10) The Dixon family drove their car an average of 1200 miles per month. If they owned the car for 3.5 months, how many miles did they drive?
A. 420 miles B. 3,650 miles C. 4,200 miles D. 4,250 miles

GCF & LCM

- 11) Mr. Fraser asked four students in his class to find the greatest common factor of 24 and 36. Which answer is correct?
A. 2 B. 3 C. 6 D. 12
- 12) For exercise, Cindy swims every 6 days and jogs every 8 days. She did both today. How many days from now until she swims and jogs again?
A. 2 days B. 14 days C. 24 days D. 48 days
- 13) What is the GCF of 60 and 90?
A. 10 B. 30 C. 60 D. 180
- 14) What is the LCM of 10 and 12?
A. 2 B. 6 C. 60 D. 120

Unit 1 Mastery Score:

_____ / 14