Math 3003

Cognitively Guided Instruction Quiz/Study Guide

Solutions

- 1. Join: Start Unknown
- 2. Separate: Change Unknown
- 3. Compare: Referent Unknown
- 4. Multiplication (Multiplicative Comparison)
- 5. Measurement Division
- 6. Part Part Whole: Whole Unknown
- 7. Separate: Result Unknown
- 8. Join: Result Unknown
- 9. (a) 4 (b) 5 (c) \$4.60/hour
- 10. (a) 2.5 h (b) 20 mph
- 11. Answers may vary.

(a) 34 children are going on a school field trip to the zoo. If a chaperone is required for 6 children, how many adults should go on the field trip?

(b) If I have \$34 in my wallet and Lowes has plants for \$6, how many plants can I afford?

(c) Grandma baked 34 cookies for her 6 grandchildren. Each child got 5 cookies. How many were left over (for Grandma to enjoy, herself)?

(d) The principal ordered 34 pizzas for 6 primary classes. On average, how many pizzas were ordered per class?

(e) Fred earned \$34 for 6 hours of raking leaves. How much did he earn per hour?

12. (a) decade (b) incrementing (c) combining tens and ones

13. direct modeling; trial & error; matching; largest; down

14. 10; invented

- 15. Answers may vary.
 - (1) 28, 38, 48, 58, 68, 78, 79, 80, 81
 - (2) 53, 63, 73, 74, 75, 76, 77, 78, 79, 80, 81
 - (3) 28 + 2 + 53 2 = 30 + 51 = 81

16. Answers may vary.

(1) (20+8)(50+3) = 1000 + 60 + 400 + 24 = 1,484

(2) 28×53 Add 212 + 424 + 848 = 1,48414 106 7 212 3 424 1 848

17. Lydia has 20 pairs of shoes, and Joanna has 12 pairs. How many more pairs does Lydia have than Joanna?; 8

Mary had some money in her purse and then spent \$15. Now she has \$24. How much money did she have at first?; \$39

A dogwood tree is 3 feet tall. A Japanese elm tree is 4 times as tall. How tall is the elm tree?; Multiplication (multiplicative comparison); 12 feet

Measurement division; $\underline{12} \times 5 = 60$

Join: Start unknown; $\underline{6} + 8 = 14$

A recreational league has 30 participants. If there are 6 basketball teams in the league, how many players are on each team?; 5 players

Sarah started the day at the beach with 9 shells and found some more. Now she has 17 shells. How many did she find?; 8 shells

Part Part Whole: Part Unknown; 6 + 9 = 15

Fred has 8 matchbox cars. Mark has 15 more cars than Fred. How many matchbox cars does Mark have?; 23 cars

Do your best! Rise to the challenge! Live and learn!