HugeMathBrain — Grade 5 Printable Quiz

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Grade 5

Problem 5.1 · 3 points — Which of these fractions is the largest?



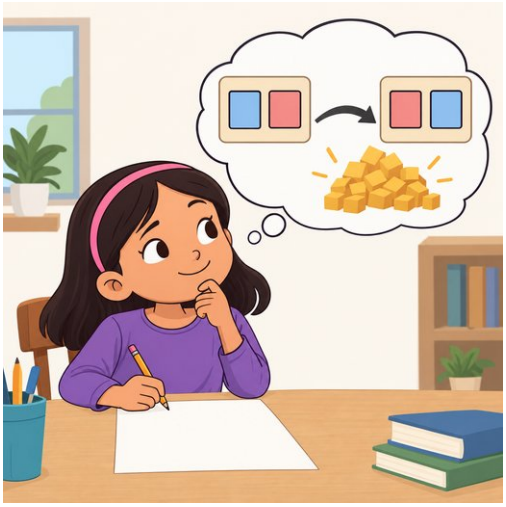
A) 1/2
B) 3/7
C) 2/5
D) 5/11
E) 4/9

Problem 5.2 · 3 points — A positive whole number gives a quotient and a remainder when divided by 7. When the same number is divided by 8, the quotient and remainder switch places. What is the number?



A) 56
B) 54
C) 47
D) 55
E) 62

Problem 5.3 · 4 points — Nina's two-digit number becomes exactly 27 LARGER when its digits are reversed. What is the smallest number Nina could have written?



A) 25
B) 36
C) 14
D) 12
E) 13

Problem 5.4 · 3 points — A rectangular garden has posts 2 m apart around its edge and along a fence joining the midpoints of its long sides, with posts at every corner and at both ends of the middle fence. There are 47 different posts in all, and each long side has 13 posts; how long is a short side?

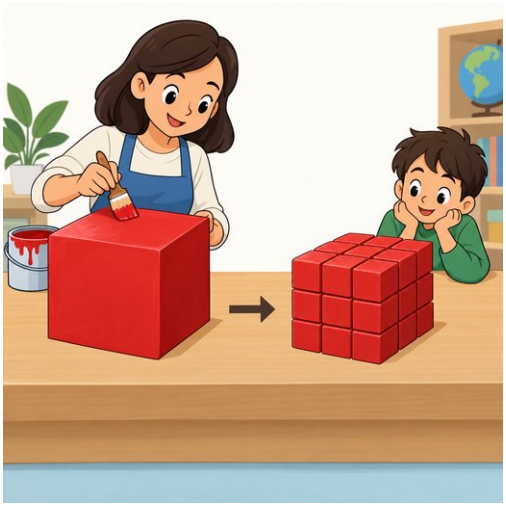
A) 12 m
B) 18 m
C) 16 m
D) 20 m
E) 14 m

Problem 5.5 · 4 points — Eight kids line up: the first five average 11 points, the last five average 15 points, and all eight average 12 points. What is the average score of the middle two kids?



A) 13
B) 17
C) 15
D) 12
E) 34

Problem 5.6 · 4 points — A large cube is painted red on the outside and then cut into 27 equal small cubes (3 × 3 × 3). How many small cubes have exactly ONE red face?



A) 12
B) 6
C) 1
D) 8
E) 26

Problem 5.7 · 5 points — Ada and Bo play three rounds with marbles: first Ada gives Bo as many as Bo already has, then Bo gives Ada as many as Ada now has, and finally Ada gives Bo as many as Bo now has. If they end with 24 marbles each, how many did Ada start with?



A) 36
B) 15
C) 24
D) 18
E) 33

Problem 5.8 · 3 points — Five tiny dragon nests can each hold at most 3 shiny pebbles. A dragon puts 13 pebbles in the nests; what is the smallest possible number of nests holding exactly 3 pebbles?



A) 1
B) 5
C) 2
D) 3
E) 4

Problem 5.9 · 4 points — Eight firefly lanterns are off. Each spell flips exactly three different lanterns (on becomes off and off becomes on); after exactly three spells, what is the greatest number that can be on?



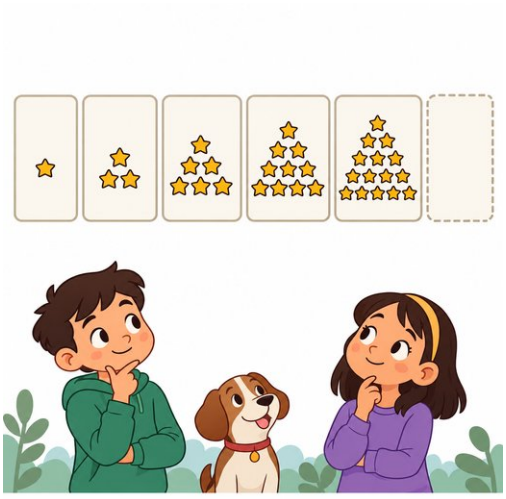
A) 7
B) 5
C) 3
D) 6
E) 8

Problem 5.10 · 5 points — Using 0, 1, 2, 3, and 4 exactly once, make five-digit numbers whose last two digits also form a two-digit number. How many have a larger two-digit number at the start than at the end?



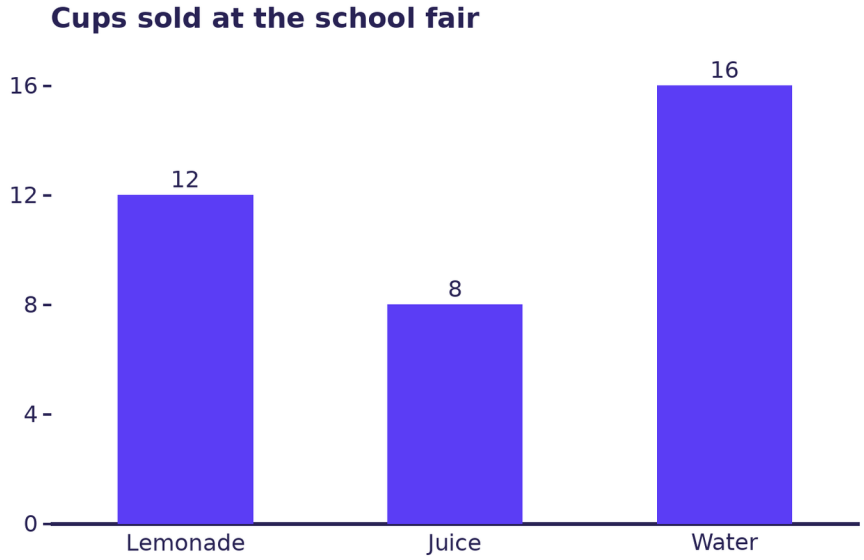
A) 36
B) 48
C) 12
D) 60
E) 72

Problem 5.11 · 4 points — What comes next in the pattern: A, C, F, J, O, ?



A) W
B) U
C) S
D) T
E) V

Problem 5.12 · 4 points — The chart shows cups of lemonade, juice, and water sold at the fair. If all the cups are put onto as many identical trays as possible, with every tray holding all three drinks, how many cups will be on each tray?



A) 12
B) 36
C) 4
D) 18
E) 9

Answer key

5.1: A
5.2: D
5.3: C
5.4: C
5.5: B
5.6: B
5.7: E
5.8: D
5.9: A
5.10: A
5.11: B
5.12: E