HugeMathBrain — Grade 4 Printable Quiz

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Grade 4

Problem 4.1 · 3 points — Lena puts the same whole number in both boxes to make $84 - 5 \times \square = 48 - 2 \times \square$. What number goes in each box?



A) 24
B) 36
C) 18
D) 12
E) 0

Problem 4.2 · 4 points — Mara multiplies two whole numbers and gets 24. When she adds the same two numbers she gets 11. What is the DIFFERENCE of the two numbers?



A) 5
B) 10
C) 23
D) 2
E) 4

Problem 4.3 · 5 points — A three-digit number has digits that add up to 26. How many such numbers are there?



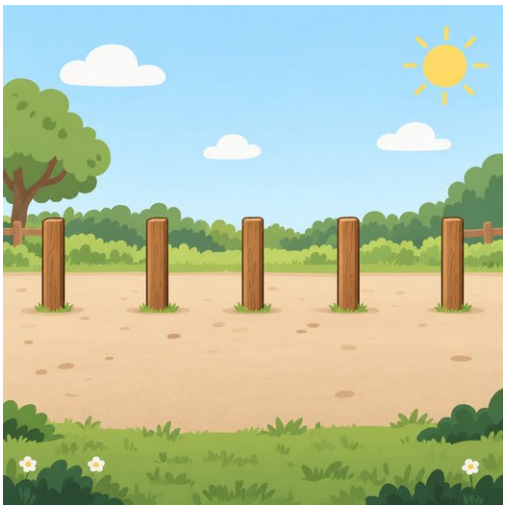
A) 1
B) 5
C) 2
D) 4
E) 3

Problem 4.4 · 3 points — A rope 12 m long is cut into pieces that are each 2 m long. How many cuts are needed?



A) 7
B) 4
C) 5
D) 3
E) 6

Problem 4.5 · 4 points — Five posts stand in a straight row. The distance between one post and the next is 3 m. How far is it from the first post to the last post?



A) 18 m
B) 9 m
C) 12 m
D) 15 m
E) 10 m

Problem 4.6 · 3 points — A toy dragonfly has four wings. Tia puts five stickers on its wings, each on exactly one wing; which statement MUST be true?



A) Some wing has at least two stickers.

B) Every wing has a sticker.

C) Some wing has no stickers.

D) Exactly one wing has two stickers.

E) Some wing has three stickers.

Problem 4.7 · 4 points — Five lamps stand in a row, all off. Bea makes exactly three moves; each move switches two neighboring lamps, turning each on lamp off and each off lamp on. Which row could she make, from left to right?



A) on-off-on-on-on

B) on-on-off-on-on

C) on-off-on-off-off

D) on-on-on-off-off

E) off-on-off-on-off

Problem 4.8 · 3 points — A toy starts on space 1 of a circular board numbered 1 to 8 clockwise. Each dance moves it 5 spaces clockwise, then 2 spaces counterclockwise; where is it after 47 dances?



A) 5
B) 4
C) 2
D) 6
E) 3

Problem 4.9 · 4 points — A 12 cm-wide, 8 cm-tall rectangle has a triangular piece cut from its bottom-left corner. The piece reaches 4 cm along the bottom and 8 cm up the left side. A vertical line divides the remaining shape into two equal areas. How far is the line from the rectangle’s original left side?



A) 8 cm
B) 7 cm
C) 6 cm
D) 4 cm
E) 5 cm

Problem 4.10 · 5 points — Ola writes every number from 1 to 9999. In the numbers whose digits add up to 14, how many times does she write the digit 7?



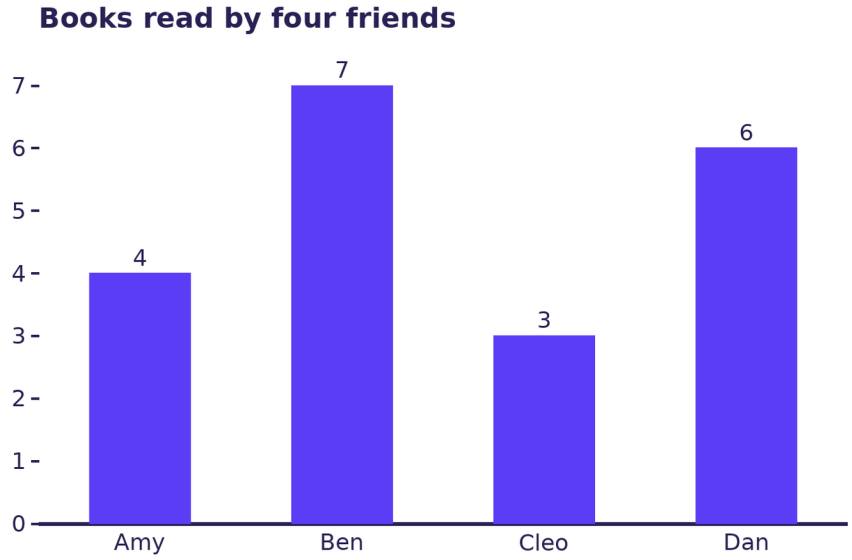
A) 112
B) 144
C) 36
D) 140
E) 138

Problem 4.11 · 3 points — Mia’s number box accepts 9, 25, 49, and 81, but rejects 16, 35, 64, and 99. Which number below would it accept?



A) 143
B) 120
C) 100
D) 144
E) 121

Problem 4.12 · 3 points — If the four friends keep reading until they have all read the same number of books, what is the fewest extra books they must read altogether?



A) 1
B) 8
C) 7
D) 4
E) 3

Answer key

4.1: D
4.2: A
4.3: E
4.4: C
4.5: C
4.6: A
4.7: A
4.8: D
4.9: B
4.10: B
4.11: E
4.12: B