

Mathematics, integers – test example

*It could be prepared by a teacher of your **favourite** subject...*

Read, think, solve - so easy! Please, let us know if you find a bag in GEZMAT... ;-)

1 (1) Problem – Number of pages

Wanda started reading a book at the beginning of page 16. After two hours she finished at the end of page 65.

- How many pages did she read?
- How many pages did she read on average in one hour?

Answer: Wanda read 50 pages, her average rate was 25 pages per hour.

2 (1) Problem – Plums

John had 30 plums. Then he ate one-third of them. How many plums has John now?

Answer: John has 20 plums.

3 (2) Problem – Apples

Mark had 32 apples. John took half of Mark's apples and added them to his own stock. Then it turned out that John has 3 times as many apples as Mark. How many apples do John and Mark have together?

Answer: John and Mark together have 64 apples.

4 (3) Problem – Pebbles

Daria and Nela collected some pebbles on the beach. If Daria gave Nela 6 pebbles, then each girl would have the same number of pebbles. However, if Nela gave Daria 8 pebbles, then Daria would have twice as many pebbles as Nela. How many pebbles did have each of the girls?

Answer: Daria had 48 pebbles and Nela 36 pebbles.

5 (3) Problem – Sides of rectangles

Calculate the length of:

- a side of the square with area 81 m^2 .
- a side of the rectangle with area 45 m^2 , and with the second side of length 9 m.
- a side of the square with perimeter equal to 20 m.
- a side of the rectangle with perimeter equal to 40 m, and with the second side of length 5 m.

Answer:

- 9 m.
- 5 m.
- 5 m.
- 15 m.

6 (3) Problem – Cycling speed

Max went by bike from the starting line and rode at the average speed 3 m/s. Ann started from the same line 7 s after Max and she finished the race 14 s before Max. Both, Ann and Max, travelled the same distance. What was the Ann's average speed if the total time of her ride was equal to 21 s?

Answer: Ann was cycling with speed 6 m/s.