# Sample Test Items from [FIMS](http://www.iea.nl/fims) Test A

**QUESTION 1** (FIMS1[[1]](#footnote-1))

43.0 - 17.6 is equal to

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**QUESTION 2** (FIMS2)

How many seven-man teams can you make out of 7 nine-man teams?

A. 7 B. 8 C. 9 D. 16 E. 63 (Ans: C)

**QUESTION 3** (FIMS3)

(22 x 18) - (47 + 59) is equal to

A. 290 B. 300 C. 384 D. 408 E. 502 (Ans: A)

**QUESTION 4** (FIMS6)

The value of 23 x 32 is

A. 30 B. 36 C. 64 D. 72 E. none of these

(Ans: D)

**QUESTION 5** (FIMS7)

A box has a volume of 100 c.c. Another box is twice as long, twice as wide and twice as high. How many c.c. is the volume of the second box?

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**QUESTION 6** (FIMS11)

A shopkeeper has x lb. of tea in stock. He sells 15 lb. and then receives a new lot weighing 2y lb. What weight of tea in lbs. does he now have?

A. x - 15 - 2y

B. x + 15 + 2y

C. x - 15 + 2y

D. x + 15 - 2y

E. none of the above

(Ans: C)

**QUESTION 7** (FIMS12)

If < 7, then

A. <

B. < 5

C. < 14

D. > 5

E. > 14

(Ans: C)

**QUESTION 8** (FIMS14)

If = 0, then *x*  is equal to

A. 0 B. 3 C. 8 D. 12 E. 16 (Ans: A)

**QUESTION 9** (FIMS17)

Which of the following is (are) true?

I. (53 x 73) x 17 = 53 x (73 x 17)

II. 133 x (78 + 89) = (133 x 78) + 89)

III. 133 x (78 + 89) = (133 x 78) + (133 x 98)

A. I only

B. II only

C. III only

D. I and II only

E. I and III only

(Ans: E)

**QUESTION 10** (FIMS18)

There are 227 boys in a school. Every boy in the school belongs to either the music club or the sports club, and some boys belong to both clubs. The music club has 120 members, and 36 of these are also members of the sports club. What is the total membership of the sports club? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Ans: 143)

**QUESTION 11** (FIMS19)

The lengths of the sides of triangle XYZ are 4, 7 and 10. If a similar triangle has a perimeter of 147, what is the length of its shortest side?

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**QUESTION 12** (FIMS21)

Which of the following is true for any parallelogram ABCD which has an acute angle at B and diagonals AC and BD?

A. AB < BC

B. AB = BC

C. AB > BC

D. AC < BD

E. None of them

(Ans: D)

**QUESTION 13** (FIMS22)

The distance between two towns, A and B, is 150 kilometres. This distance is represented on a certain map by a length of 30 centimetres.

The scale of this map is

A. 1 / 500,000

B. 30 / 150

C. 1 / 20,000

D. 1 / 5,000

E. 1 / 200,000

(Ans: A)

**QUESTION 14** (FIMS23)

Which of the following equals 7 x (3 + 9) ?

A. (7 x 3) + (7 x 9)

B. (7 x 9) + (3 x 9)

C. (7 x 3) + (3 x 9)

D. 7 x 27

E. 21 + 9

(Ans: A)

1. This was the item number in the original FIMS study (http://www.iea.nl/fims). [↑](#footnote-ref-1)