

**Military High School
Entrance Exam-Grade 7**

1. Which is more 9 or 6?
2. 8 minus 5 equals
What number replaces ?
3. Which is less 8 or 7?
4. There are 8 boys and 3 girls in a class.
There are students in the class.
What number replaces ?
5. By how much is 9 more than 5?
6. What is the difference between 10 and 6?
7. What is the sum of 5 and 9?
8. How many students are $\frac{1}{4}$ of 32 students?
9. What number divided by 5 gives 8?
10.
Ben has 4 times as much money as May.
If May has 6 dollars, Ben has dollars.
What number replaces ?
11. **Reference:** Level E Chapter 5 Section 4
Pete had 18 birds. Jim took $\frac{1}{3}$ of Pete's birds.
Pete has birds now.
What number replaces ?
12. **Reference:** Level E Chapter 5 Section 4
What number is $\frac{1}{5}$ of 25?

13.

Add: $2 + 4 + 9$.

Give the final answer.

14. Add: $45 + 86$.

Give the final answer.

15. Subtract: $75 - 9$.

Give the final answer.

16. Add: $3,675 + 399$.

Give the final answer.

17. Subtract: $1,472 - 583$.

Give the final answer.

18.

Multiply: 8×9 .

Give the final answer.

19.

Divide: $32 \div 8$.

Give the final answer.

20.

What number is 9 times 5?

21.

What number multiplied by 5 gives 30?

22.

28 pictures are equally divided into 4 albums. How many pictures are in each album?

23. Reference: Level E Chapter 5 Section 4

What number is half of 10?

24.

Susan places 10 doughnuts in a box.
How many boxes are needed to place 90 doughnuts?

25.

What is the value of \square in the number sentence?

$$42 - 23 = \square + 9$$

26.

Give the quotient of $3,600 \div 600$.

27.

Multiply: 523×100 .

Give the final answer.

28.

Multiply: 325×46 .

Give the final answer.

29.

Give the quotient of $340 \div 4$.

30.

$4,306 \div 4 = \square R 2$

What number must replace \square ?

31. What is the value of $0.16 + 0.25$?

32.

What is the value of 4.6×3.2 ?

33.

What is the value of $36.54 \div 6$?

34. What is the value of 1.8×10^2 ?

35. What is the GCF of 48 and 54?

36. What is the LCM of 12 and 18?

37. Simplify $12 \times 3 - 35 \div 7$.

38. What whole number is equal to 35% of 300?

39. If 5 pens cost \$4.50 then 4 pens cost dollars.
What number replaces ?

Give your answer to two decimal places.

40- The fraction $\frac{4}{5}$ expressed as a percentage is %.
What number replaces ?

41. Compare $\frac{3}{4}$ and $\frac{7}{10}$. Which is the greater fraction?

42. Write $\frac{24}{28}$ in lowest terms.

43. Add: $\frac{1}{6} + \frac{1}{4}$.

Give your answer in lowest terms.

44. Simplify $\frac{6}{8} \times \frac{14}{12}$.

45. $\frac{8}{3}$ divided by $\frac{4}{9} =$

46.

Order the following fractions from smallest to largest.

$\frac{1}{2}, \frac{3}{4}, \frac{2}{10}, \frac{4}{5}$

47. Express 75% as a fraction in lowest terms.

48.

Subtract: $\frac{4}{6} - \frac{1}{4}$.

Give your answer in lowest terms.

49.

What is the value of $72.36 - 31.47$?

50. What is the value of in the number sentence?

$$36 \div \square = 9$$

Solutions:

1. 9

2. $8-5=3$

3. 7

4. $8+3=11$

5. 4

6. $10-6=4$

7. $5+9=14$

8. 8

9. 40

10. 24

11.

Sample question answer:

[Section 1]

Jim took $18 \div 3 = 6$ birds from Pete.

Pete now has $18 - 6 = 12$ birds.

Answer: 12

12.

MHS

Sample question answer:

[Section 1]

$$25 \div 5 = 5$$

Answer: 5

13.

Add: $2 + 4 + 9$.

Give the final answer.

14.

Sample question answer:

[Section 1]

$$\begin{array}{r} 1 \\ 4 \ 5 \\ + \ 8 \ 6 \\ \hline 1 \ 3 \ 1 \end{array}$$

Answer: 131.

15.

Sample question answer:

[Section 1]

$$\begin{array}{r} 6 \quad 15 \\ \cancel{7} \ \cancel{5} \\ - \quad \quad 9 \\ \hline 6 \ 6 \end{array}$$

Answer: 6

16.

Sample question answer:

[Section 1]

$$\begin{array}{r}
 1 \ 1 \ 1 \\
 3 \ 6 \ 7 \ 5 \\
 + \ 3 \ 9 \ 9 \\
 \hline
 4 \ 0 \ 7 \ 4
 \end{array}$$

Answer: 4074

17.

Sample question answer:

[Section 1]

$$\begin{array}{r}
 \begin{array}{cccc}
 & 0 & 13 & 16 & 12 \\
 & \cancel{1} & \cancel{4} & \cancel{7} & \cancel{2}
 \end{array} \\
 - \quad 5 \ 8 \ 3 \\
 \hline
 \quad 8 \ 8 \ 9
 \end{array}$$

Answer: 889

18.

Sample question answer:

[Section 1]

$$8 \times 9 = 72$$

Answer: 72

19.

Sample question answer:

[Section 1]

$$32 \div 8 = 4$$

Answer: 4

20.

Sample question answer:

[Section 1]

$$9 \times 5 = 45$$

Answer: 45

21.

Sample question answer:

[Section 1]

$$\square \times 5 = 30$$

$$\square = 30 \div 5$$

$$\square = 6$$

Answer: 6

22.

Sample question answer:

[Section 1]

There are $28 \div 4 = 7$ pictures in each album.

Answer: 7

23.

Sample question answer:

[Section 1]

$10 \div 2 = 5$

Answer: 5

24. **Sample question answer:**

[Section 1]

$90 \div 10 = 9$ boxes

Answer: 9

25.

Sample question answer:

[Section 1]

$19 = \square + 9$

$\square = 10$

Answer: 10

26. **Sample question answer:**

[Section 1]

$3,600 \div 600 = 6$

Answer: 6

27. **Sample question answer:**

[Section 1]

$523 \times 100 = 52,300$

Answer: 52300

28. Multiply: $325 \square 46$.

MHS

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Give the final answer.

Sample question answer:

[Section 1]

$$\begin{array}{r} 325 \\ \times 46 \\ \hline 1950 \\ +13000 \\ \hline 14950 \end{array}$$

$$325 \times 46 = 14950$$

Answer: 14950

29.

Sample question answer:

[Section 1]

$$340 \div 4 = 85$$

Answer: 85

30.

Sample question answer:

[Section 1]



$$\begin{array}{r} 1076 \\ 4 \overline{)4306} \\ \underline{4} \\ 030 \\ \underline{28} \\ 26 \\ \underline{24} \\ 2 \end{array}$$

$$4306 \div 4 = 1076 \text{ R}2$$

Answer: 1076

31.

Sample question answer:

[Section 1]

$$\begin{array}{r} 0.16 \\ +0.25 \\ \hline 0.41 \end{array}$$

Answer: 0.41

32.

Sample question answer:

[Section 1]

$$\begin{array}{r} 4.6 \\ \times 3.2 \\ \hline 92 \\ +1,380 \\ \hline 14.72 \end{array}$$

Answer: 14.72

33.

Sample question answer:

[Section 1]

$$\begin{array}{r} 6.09 \\ 6 \overline{) 36.54} \\ \underline{-36} \\ 054 \\ - \underline{54} \\ 0 \end{array}$$

Answer: 6.09

34.

Sample question answer:

[Section 1]

MHS

$$1.8 \times 10^2 = 1.8 \times 100 = 180$$

Answer: 180

35.

Sample question answer:

[Section 1]

$$48 = 2^4 \times 3$$

$$54 = 2 \times 3^3$$

$$\text{GCF}(48, 54) = 2 \times 3 = 6$$

Answer: 6

36.

Sample question answer:

[Section 1]

$$12 = 2^2 \times 3$$

$$18 = 2 \times 3^2$$

$$\text{LCM}(12, 18) = 2^2 \times 3^2 = 36$$

Answer: 36

37.

Sample question answer:

[Section 1]

$$12 \times 3 - 35 \div 7 = 36 - 5 = 31$$

Answer: 31

38.

Sample question answer:

[Section 1]

$$\frac{35}{100} \times 300 = 105$$

Answer: 105

39.

Sample question answer:

[Section 1]

MHS

$$\square = \frac{4.50 \times 4}{5} = 3.60$$

Answer: 3.60

40.

Sample question answer:

[Section 1]

$$\frac{4}{5} = \frac{80}{100} = 80\%$$

Answer: 80

41.

Sample question answer:

[Section 1]

$$\frac{3 \times 5}{4 \times 5} = \frac{15}{20} \text{ and } \frac{7 \times 2}{10 \times 2} = \frac{14}{20}.$$

$$\frac{15}{20} > \frac{14}{20} \text{ so } \frac{3}{4} > \frac{7}{10}.$$

Answer: $\frac{3}{4}$

42.

Sample question answer:

[Section 1]

$$\frac{24}{28} = \frac{24 \div 4}{28 \div 4} = \frac{6}{7}$$

MHS

Answer: $\frac{6}{7}$

43. Sample question answer:

[Section 1]

$$\frac{1}{6} + \frac{1}{4} = \frac{2}{12} + \frac{3}{12} = \frac{5}{12}$$

Answer: $\frac{5}{12}$

44.

Sample question answer:

[Section 1]

$$\frac{6^1}{8} \times \frac{14^7}{12^7} = \frac{7}{8}$$

Answer: $\frac{7}{8}$

45.

Sample question answer:

[Section 1]

$$\frac{8}{3} \div \frac{4}{9} = \frac{8^2}{3^1} \times \frac{9^3}{4^1} = \frac{6}{1} = 6$$

Answer: 6

46. Reference: Level G Chapter 5 Section 1

Sample question answer:

[Section 1]

$$\frac{1 \times 10}{2 \times 10}, \frac{3 \times 5}{4 \times 5}, \frac{2 \times 2}{10 \times 2}, \frac{4 \times 4}{5 \times 4}$$

$$\frac{10}{20}, \frac{15}{20}, \frac{4}{20}, \frac{16}{20}$$

Answer: $\frac{2}{10}, \frac{1}{2}, \frac{3}{4}, \frac{4}{5}$

47.

Sample question answer:

[Section 1]

$$\frac{75}{100} = \frac{75 \div 5}{100 \div 5} = \frac{15 \div 5}{20 \div 5} = \frac{3}{4}$$

Answer: $\frac{3}{4}$

48.

Sample question answer:

[Section 1]

$$\frac{4}{6} - \frac{1}{4} = \frac{8}{12} - \frac{3}{12} = \frac{5}{12}$$

Answer: $\frac{5}{12}$

49.

Sample question answer:

[Section 1]

$$\begin{array}{r} ^1 ^{12} \\ 72.\cancel{3}6 \\ -31.47 \\ \hline 40.89 \end{array}$$

Answer: 40.89

50.

Sample question answer:

[Section 1]

$$\square = 36 \div 9 = 4$$

Answer: 4