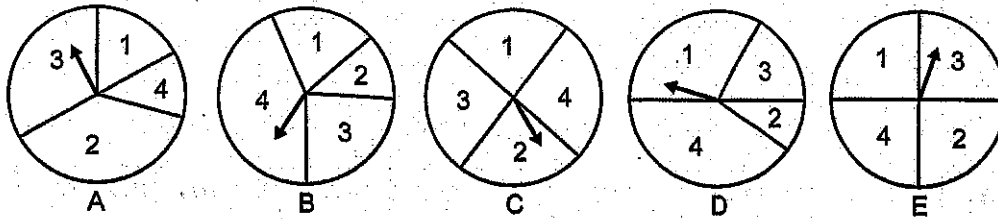


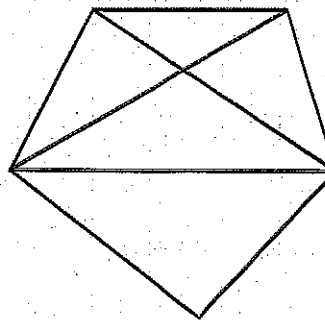
10. What is the largest natural number that, when multiplied by 7, gives a result smaller than 143?  
 A) 21                      B) 22                      C) 18                      D) 19                      E) 20

11. Which spinner should you choose to increase your chances of getting a 3 or a 2?



12. How many triangles can you count in the diagram shown?

- A) 7                      B) 8                      C) 9  
 D) 10                      E) 11



13. The value of  $(1 + 2 + 3 + \dots + 20)$  is 210. What is the value of  $(2 + 4 + 6 + \dots + 40)$ ?

- A) 315                      B) 360                      C) 400  
 D) 410                      E) 420

14. If  $3 \times 37 = 111$ , then  $27 \times 37 = ?$

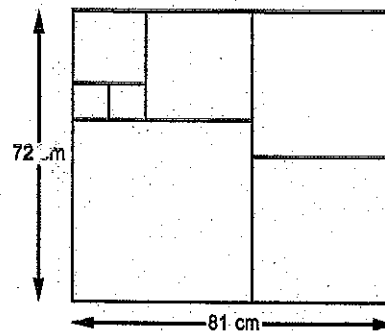
- A) 1 111                      B) 999                      C) 1 119                      D) 1 009                      E) 777

15. The sum of  $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8$  is not divisible by

- A) 2                      B) 4                      C) 9                      D) 7                      E) 12

16. Tim has used square tiles to completely cover a rectangular surface of 81 cm x 72 cm. What is the length of the side of the smallest tile he has used?

- A) 7 cm                      B) 8 cm  
 C) 9 cm                      D) 10 cm  
 E) 11 cm

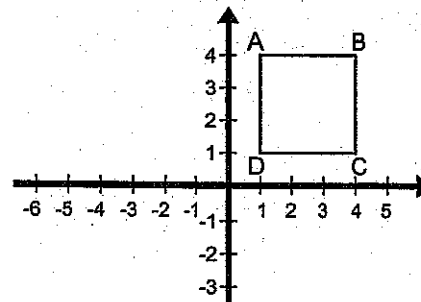


17. The GCF of 12, 36, and 72 is

- A) 12                      B) 16                      C) 24  
 D) 4                      E) 6

18. ABCD is a square. What are the coordinates of the image of vertex D, if the square is slid (translation) 5 units to the left?

- A) (-5, 1)                      B) (-1, 4)                      C) (-4, 2)  
 D) (-1, 1)                      E) (-4, 1)

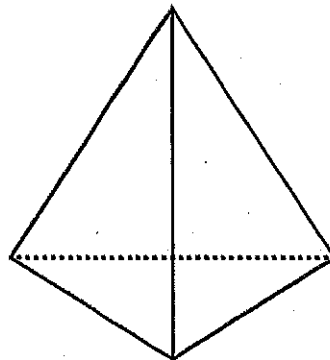


# Mathematica Centrum

Together, let's shape the mathematicians of the future

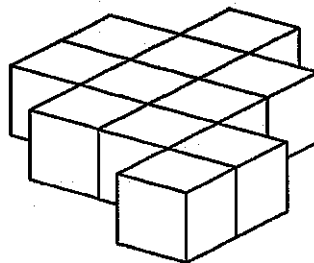
1. The value of X in the equation:  $X - 2 = 23$  is  
A) 21                      B) 23                      C) 22                      D) 25                      E) 24
2. Which number is twelve less than two hundred seven  
A) 195                      B) 207                      C) 197                      D) 214                      E) 277
3. The number of edges of a cube multiplied by the number of faces of a cube is equal to  
A) 18                      B) 60                      C) 48                      D) 66                      E) 72
4. If each bag has 10 chocolates, how many chocolates are there, in total, in 8 bags?  
A) 18                      B) 80                      C) 90                      D) 40                      E) 75

5. The number of faces plus the number of vertices of the pyramid is equal to  
A) 7                      B) 4  
C) 5                      D) 6  
E) 8
6. The largest 4-digit even number that can be written with the digits 1, 8, 6, and 4 is  
A) 8 641                      B) 6 814                      C) 8 614  
D) 4 681                      E) 1 468



7. The missing number in the sequence: 3 500, 3 250, ?, 2 750, 2 500 is  
A) 3 000                      B) 3 150                      C) 3 125  
D) 3 200                      E) 3 175

8. Eleven blocks have been glued together as shown in the diagram. How many faces of these blocks have no glue on them?  
A) 40                      B) 42                      C) 44  
D) 38                      E) 46



9. 16 quarters = ? dimes

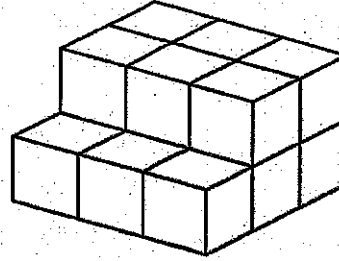
- A) 25                      B) 30                      C) 40                      D) 45                      E) 50

10. Write the following 5 numbers: 3 782, 2 863, 1 935, 2 926, 3 931 in increasing order (from the smallest to largest). The fourth number written is

- A) 3 782                      B) 2 863                      C) 3 931  
D) 1 935                      E) 2 926

11. What number is 10 more than the number that is 10 times smaller than 10?

- A) 21                      B) 10                      C) 11  
D) 20                      E) 12



12. How many blocks are in the pile?

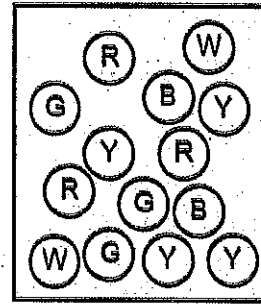
- A) 11                      B) 12                      C) 13                      D) 14                      E) 15

13. 11 hundreds - 280 + 14 tens = ?

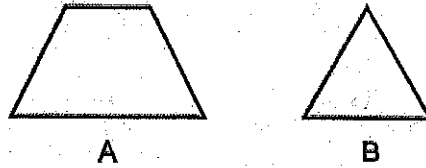
- A) 960                      B) 1 020                      C) 980                      D) 1 050                      E) 950

14. Without looking, Mathew picks one marble from the box. What colour (Red, Green, Yellow, Black or White) is Mathew most likely to choose?

- A) Red                      B) Green                      C) Yellow  
D) Black                      E) White



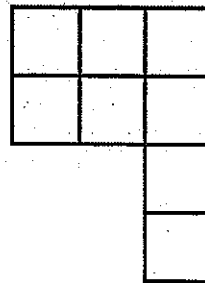
15. The sum of the number of lines of symmetry of figure A and of figure B is equal to



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

16. How many 3-digit numbers can you form if you use the 3 following digits: 0, 1, and 2 only once?

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

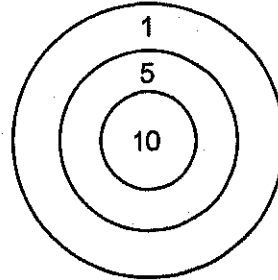


17. The figure shown is made of 8 small squares. The side of each small square is 1 cm long. What is the perimeter of this figure?

- A) 17 cm                      B) 13 cm                      C) 16 cm  
D) 14 cm                      E) 15 cm

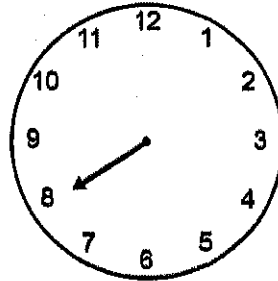
18. A target is composed of 3 distinct areas. When hit, the areas are worth 1, 5, or 10 points. Mathusalem hit the target 8 times and scored 38 points. How many times did he hit the 5-point area?

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



19. The clock shown in the diagram has just lost its minute hand. What is the approximate time it lost it?

A) 7:30                      B) 7:32                      C) 7:28  
D) 7:55                      E) 7:40



20. How many odd numbers are there between 80 and 180?

A) 49                      B) 51                      C) 50  
D) 52                      E) 100

21. A 2-digit natural number is added to a 3-digit natural number. The sum could be

A) 78                      B) 1 100                      C) 98                      D) 109                      E) 777

# Metric units of length: kilometers, meters, centimeters and millimeters

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## Grade 3 Measurement Worksheet

Note: 1 kilometer (km) = 1,000 meter (m)  
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1. 73 m = \_\_\_\_\_ mm
2. 45 m = \_\_\_\_\_ mm
3. 20 m = \_\_\_\_\_ cm
4. 49 m = \_\_\_\_\_ cm
5. 67 m = \_\_\_\_\_ cm
6. 89 m = \_\_\_\_\_ cm
7. 13 m = \_\_\_\_\_ mm
8. 17 cm = \_\_\_\_\_ mm
9. 22 m = \_\_\_\_\_ cm
10. 31 m = \_\_\_\_\_ cm

Convert to the units shown:

11. 3,000 cm = \_\_\_\_\_ m
  12. 1,000 mm = \_\_\_\_\_ cm
  13. 5,000 mm = \_\_\_\_\_ cm
  14. 5,000 mm = \_\_\_\_\_ m
  15. 2,000 cm = \_\_\_\_\_ m
  16. 1,000 cm = \_\_\_\_\_ m
  17. 8,000 cm = \_\_\_\_\_ m
  18. 4,000 mm = \_\_\_\_\_ m
  19. 4,000 mm = \_\_\_\_\_ cm
  20. 6,000 mm = \_\_\_\_\_ m
-

# Metric units of length: kilometers, meters, centimeters and millimeters

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## Grade 3 Measurement Worksheet

Note: 1 kilometer (km) = 1,000 meter (m)  
1 m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1. 31 m = \_\_\_\_\_ mm      2. 28 m = \_\_\_\_\_ mm

3. 72 m = \_\_\_\_\_ cm      4. 27 m = \_\_\_\_\_ cm

5. 16 cm = \_\_\_\_\_ mm      6. 59 m = \_\_\_\_\_ mm

7. 77 m = \_\_\_\_\_ mm      8. 94 m = \_\_\_\_\_ cm

9. 48 m = \_\_\_\_\_ cm      10. 62 m = \_\_\_\_\_ cm

Convert to the units shown:

11. 8,000 mm = \_\_\_\_\_ m      12. 3,000 mm = \_\_\_\_\_ m

13. 9,000 mm = \_\_\_\_\_ m      14. 3,000 mm = \_\_\_\_\_ cm

15. 1,000 mm = \_\_\_\_\_ m      16. 6,000 cm = \_\_\_\_\_ m

17. 6,000 mm = \_\_\_\_\_ cm      18. 9,000 mm = \_\_\_\_\_ cm

19. 2,000 cm = \_\_\_\_\_ m      20. 7,000 cm = \_\_\_\_\_ m

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Solve each problem.

example: -

1) 4 meters and 3 centimeters = 403 centimeters

$400\text{ cm} + 3\text{ cm} = 403$  [ $\because 1\text{ m} = 100\text{ cm}$ ]

2) 3 kilometers and 8 meters = \_\_\_\_\_ meters

3) 7 centimeters and 9 millimeters = \_\_\_\_\_ millimeters

4) 1 meter and 5 centimeters = \_\_\_\_\_ centimeters

5) 5 kilometers and 5 meters = \_\_\_\_\_ meters

6) 5 centimeters and 2 millimeters = \_\_\_\_\_ millimeters

7) 5 meters and 8 centimeters = \_\_\_\_\_ centimeters

8) 9 kilometers and 1 meter = \_\_\_\_\_ meters

9) 2 centimeters and 3 millimeters = \_\_\_\_\_ millimeters

10) 8 meters and 8 centimeters = \_\_\_\_\_ centimeters

11) 8 kilometers and 3 meters = \_\_\_\_\_ meters

12) 9 centimeters and 4 millimeters = \_\_\_\_\_ millimeters

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

# Measuring Worksheet 12

Convert the measuring units as indicated.

1a. 2000 g = \_\_\_\_\_ kg

1b. 9 L = \_\_\_\_\_ ml

2a. 1000 g = \_\_\_\_\_ kg

2b. 8000 g = \_\_\_\_\_ kg

3a. 10 L = \_\_\_\_\_ ml

3b. 6000 ml = \_\_\_\_\_ L

4a. 4 L = \_\_\_\_\_ ml

4b. 4 kg = \_\_\_\_\_ g

5a. 10 kg = \_\_\_\_\_ g

5b. 1 L = \_\_\_\_\_ ml

6a. 5000 ml = \_\_\_\_\_ L

6b. 6000 g = \_\_\_\_\_ kg

7a. 3 kg = \_\_\_\_\_ g

7b. 7 kg = \_\_\_\_\_ g

8a. 3000 ml = \_\_\_\_\_ L

8b. 9000 g = \_\_\_\_\_ kg

9a. 2000 ml = \_\_\_\_\_ L

9b. 5 kg = \_\_\_\_\_ g

10a. 7000 ml = \_\_\_\_\_ L

10b. 8000 ml = \_\_\_\_\_ L



# Measuring Worksheet 12

Convert the measuring units as indicated.

1a. 2000 g = \_\_\_\_\_ kg

1b. 9 L = \_\_\_\_\_ ml

2a. 1000 g = \_\_\_\_\_ kg

2b. 8000 g = \_\_\_\_\_ kg

3a. 10 L = \_\_\_\_\_ ml

3b. 6000 ml = \_\_\_\_\_ L

4a. 4 L = \_\_\_\_\_ ml

4b. 4 kg = \_\_\_\_\_ g

5a. 10 kg = \_\_\_\_\_ g

5b. 1 L = \_\_\_\_\_ ml

6a. 5000 ml = \_\_\_\_\_ L

6b. 6000 g = \_\_\_\_\_ kg

7a. 3 kg = \_\_\_\_\_ g

7b. 7 kg = \_\_\_\_\_ g

8a. 3000 ml = \_\_\_\_\_ L

8b. 9000 g = \_\_\_\_\_ kg

9a. 2000 ml = \_\_\_\_\_ L

9b. 5 kg = \_\_\_\_\_ g

10a. 7000 ml = \_\_\_\_\_ L

10b. 8000 ml = \_\_\_\_\_ L

# Metric units of mass: kilograms and grams

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## Grade 3 Measurement Worksheet

Note: 1 kilogram (kg) = 1,000 grams (gm)

Convert kilograms to grams

1. 16 kg = \_\_\_\_\_ g      2. 6 kg = \_\_\_\_\_ g

3. 8 kg = \_\_\_\_\_ g      4. 2 kg = \_\_\_\_\_ g

5. 4 kg = \_\_\_\_\_ g      6. 50 kg = \_\_\_\_\_ g

7. 83 kg = \_\_\_\_\_ g      8. 99 kg = \_\_\_\_\_ g

9. 69 kg = \_\_\_\_\_ g      10. 7 kg = \_\_\_\_\_ g

Convert grams to kilograms

11. 200,000 g = \_\_\_\_\_ kg      12. 300,000 g = \_\_\_\_\_ kg

13. 80,000 g = \_\_\_\_\_ kg      14. 100,000 g = \_\_\_\_\_ kg

15. 400,000 g = \_\_\_\_\_ kg      16. 10,000 g = \_\_\_\_\_ kg

17. 40,000 g = \_\_\_\_\_ kg      18. 70,000 g = \_\_\_\_\_ kg

19. 60,000 g = \_\_\_\_\_ kg      20. 50,000 g = \_\_\_\_\_ kg

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