Converting Units of Measurement

Name: _____	Date: _____	Score: _____ / 18

Quick Review and Helpful Hints

To convert units, multiply by the right conversion factor. Handy ones: 1 ft $=$ 12 in, 1 yd $=$ 3 ft, 1 m $=$ 100 cm, 1 km $=$ 1000 m, 1 lb $=$ 16 oz, 1 hr $=$ 60 min, 1 min $=$ 60 s.

▷ **Example:** Convert 3 ft to inches. **Work:** Since 1 ft $=$ 12 in, multiply: $3 \times 12 = 36$.

★ **Answer:** 36 in

$1 \text{ ft} = 12 \text{ in}$

Multiply by the conversion factor.

Practice Problems

Convert each measurement.

1. 3 ft to inches _____
2. 2 yd to feet _____
3. 5 m to cm _____
4. 2 km to m _____
5. 4 lb to oz _____
6. 2 hr to min _____
7. 5 min to sec _____
8. 24 in to ft _____
9. 9 ft to yd _____
10. 300 cm to m _____
11. 3000 m to km _____
12. 48 oz to lb _____
13. 180 min to hr _____
14. 6 ft to inches _____

Word Problems

15. A stage crew cuts two shelf braces that are each 2 ft long. The supply sheet must list the total brace length in inches. How many inches of brace material are needed?

_____

16. A community fun run has a 2 km loop followed by a 3 km straight finish. The timing system records meters. How many meters is the full route?

_____

17. At a clinic, a scale reads 96 oz with a blanket. The blanket weighs 16 oz, so the baby is 80 oz. What is the baby's weight in pounds?

_____

18. A GED prep class reserves a 2 hr review block that includes instruction, practice, and a short break. How many total minutes are reserved?

_____

Answer Keys

1. 36 in	**7.** 300 s	**13.** 3 hr
2. 6 ft	**8.** 2 ft	**14.** 72 in
3. 500 cm	**9.** 3 yd	**15.** 48 in
4. 2000 m	**10.** 3 m	**16.** 5000 m
5. 64 oz	**11.** 3 km	**17.** 5 lb
6. 120 min	**12.** 3 lb	**18.** 120 min

Step-by-Step Explanations

1. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $3 \times 12 = 36$ in. So the final answer is 36.

2. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $2 \times 3 = 6$ ft. So the final answer is 6.

3. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $5 \times 100 = 500$ cm. So the final answer is 500.

4. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $2 \times 1000 = 2000$ m. So the final answer is 2000.

5. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $4 \times 16 = 64$ oz. So the final answer is 64.

6. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $2 \times 60 = 120$ min. So the final answer is 120.

7. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $5 \times 60 = 300$ s. So the final answer is 300.

8. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $24 \div 12 = 2$ ft. So the final answer is 2.

9. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $9 \div 3 = 3$ yd. So the final answer is 3.

10. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $300 \div 100 = 3$ m. So the final answer is 3.

11. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $3000 \div 1000 = 3$ km. So the final answer is 3.

12. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $48 \div 16 = 3$ lb. So the final answer is 3.

13. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $180 \div 60 = 3$ hr. So the final answer is 3.

14. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $6 \times 12 = 72$ in. So the final answer is 72.

15. First find the total brace length: two 2-ft braces make 4 ft altogether. Since each foot has 12 inches, multiply $4 \times 12 = 48$. The supply sheet should list 48 in.

16. Add the two route parts first: 2 km $+3$ km $= 5$ km. Then convert kilometers to meters by multiplying by 1000: $5 \times 1000 = 5000$. The full route is 5000 m.

17. Subtract the blanket to get the baby's weight: $96 - 16 = 80$ oz. Since 16 oz equals 1 lb, divide $80 \div 16 = 5$. The baby weighs 5 lb.

18. The class block is listed in hours, but the schedule needs minutes. Each hour is 60 minutes, so $2 \times 60 = 120$. The reserved block is 120 min.

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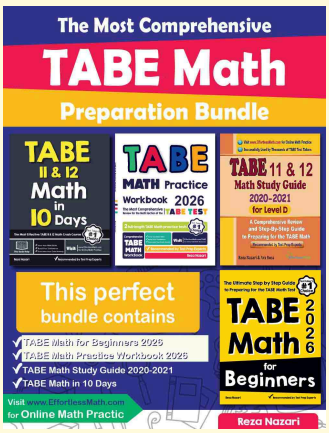

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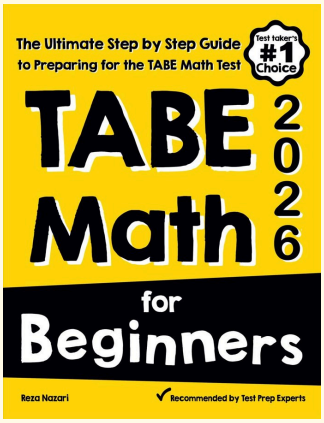

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