Name:	Date:
WORKSHEET	: Word Problems Age/Time
1. Maria is now 16 years How old is her brother n	old. In 6 years, she will be twice as old as her brother is then. ow?
A. 5 B. 6 C. 8 D. 11	
2. A factory runs nonstop what time does their thir	p for three 14 hour shifts. The first shift starts at 9:00 AM. At d shift end?
3. When Larry was 14 ye as Larry, how old is Larry	ears old, his father was 37. Now that Larry's father is twice as old ry?
4. Judy is n years older to old is Carmen in terms of	than Carmen and twice as old as Frances. If Frances is 15, how f n?
	perature was 12° below zero Fahrenheit. Then the temperature urs. What was the temperature at 2:00 p.m.?
A. 21° B. 9° C. 6° D.	3°
6. If Kate's age is 13 and again be the reverse of h	her mother's age is 31, in how many years will Kate's age once er mother's?
	fe as a child, 1/4 as a girl and 1/3 as a working adult. She then n retirement. How old was Eva when she died?
8. Lindsey is now x years old and Xiu Dan is 2 years older than Lindsey. In terms of x , how old was Xiu Dan 3 years ago?	
9. Danielle's mom is 3 le what is Danielle's age in	ess than four times her daughter's age. If M is her mother's age, terms of M?
10. What time will it be	46 hours after 9:30 p.m. on Friday?

ANSWERS:



1. (A) If Maria is 16 now, in 6 years she will be 22. Since she will then (in 6 years) be twice as old as her brother, he will be 11 (in 6 years). To find his present age, subtract 6 from 11. Thus, he is now 5 years old.

2. The original time is 9AM. 3×14 hr shifts = 42 hours of shifts which is 6 hours less than 2 days or 48 hours. Subtract 6 hours form 9Am and the result is 3AM two days later.

3. L = 14 F = 37 an unkown amount of years, x, in the past. Currently, F + x = 2(L + x)37 + x = 2(14 + x) = 28 + 2xx = 37 - 28 = 9 years Larry is current 14 + x = 14 + 9 = 23 years old

4. Translate text information to proper equations or math relationships. e.g. J = C + n. Compute values for certain variables from data provided. e.g. F=15, $J = 2 \times F = 2 \times 15 = 30$. Solve for required variable. C = J - n = 30 - n

5. (B) At 2:00 p.m., seven hours had passed since the initial temperature reading of -12°. The temperature rose 3° each hour over this sevenhour period, for a total rise of $3^{\circ} \times 7 = 21^{\circ}$. (-12)° + $21^{\circ} = 9^{\circ}$.

6. The two ages are reverse digits now and they will be the reverse again when we add the same units and tens digit. The lowest number with the same two digits is 11 at which point their ages will be 24 and 42; reverse digits.

7. 1/3 + 1/4 + 1/5 = 20/60 + 15/60 + 12/60 = 47/60 of her life occurred before retirement. Retirement was 13 years which was the last 13/60 of her life. It is probably obvious at this point she lived until 60, but completing the ratio problem....

13/60 = 13/Age ...so Age = $(13/13) \times 60 = 60$

8. If Lindsey is now x years old and Xiu Dan is 2 years older, he is now x + 2. Therefore, 3 years ago his age was x + 2 - 3, or x - 1.

9. Danielle's age can be represented by variable D. If her mother's age M is 3 less than 4 times D then M = 4D - 3. We need to solve for D in terms of M in order to answer the question. 4D = M + 3D = (M + 3)/4

10. The quickest solution is to first "round up" from 46 hours to 48 hours, because 48 hours is 2 full days. Thus, 48 hours after 9:30 p.m. on Friday would be 9:30 p.m. on Sunday. Since the question asks for 46 hours, subtract 2 hours from 9:30 p.m. Sunday to get 7:30 p.m. Sunday.

KEY CONCEPTS:

Learn to setup and solve word problems related to age and time.