Elementary - Willy Wonka

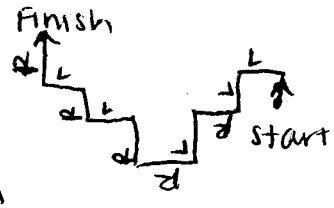
1. 10¢ + 10¢ + 10¢ = 30¢
The 8 coins add up to 30¢
2 dimes + 1 nickel + 5 pennies = 8 coins
20¢ + 5¢ + 5¢ = 30¢
b) 1

2. Prime numbers:
1 3 5 7 11 13
C) 13

3. 14 people present
Each person has 1 pair of legs
14 × 1 = 14
b) 14

4. Find pairs of numbers that add up to 201
1+200
2+199
3+198
etc.
There are 100 pairs
201 × 100 = 20,100

5. Directions are relative to children's position



a) North

6. 11:00 AM − 2 hours = 9:00 AM
9:00 AM − 15 minutes = 8:45 AM
a) 8:45 AM

7. Oompa-Loompas leave at 3 different times: 5 min, 10 min, 15 min
3 × 4 = 12 Oompa-Loompas leave
Oompa-Loompas enter at 8 different times: 2, 4, 6, 8, 10, 12, 14, 16 min.
8 × 6 = 48 Oompa-Loompas enter
30 − 12 + 48 = 66
a) 66

8. 7 × 5 = 35
35 − 1 − 2 = 32
b) 32

9. 3 × 4 × 4 × 6 = 288
e) NOTA

10. 4389 × 10 = 43,890
c) 43,890

11. $\frac{6280 \text{ meters}}{20 \text{ seconds}}$ = 314 meters per second
a) 314

12. 136 ÷ 3 = 45 remainder 1
245 ÷ 3 = 81 remainder 2

$793 \div 3 = 264$ Remainder 1
$978 \div 3 = 326$ NO Remainder
d) 978

13. 60 has 0 as its last digit
Therefore, the product of all the last digits is also 0.
a) 0

14. $\frac{14,000,000 \text{ candies}}{7 \text{ continents}} = 2,000,000$ candies per continent

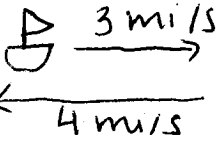
15. Tallahassee 11 letters
Atlanta 7 letters
$11 \times 7 = 77$
d) 77

16. $40 - 14 = 26$
c) 26

17. Read the question carefully. Charlie counted 14 chocolate bars BEFORE the two bars were bought.
c) 14

18. $25 - 4 = 21$
b) 21

19. 2 3 5 8 13 21 34 55 ?
+1 +2 +3 +5 +8 +13 +21 +34
Add the previous number to get the next number
55+34 = 89
d) 89

20 W 

E
3-4 = -1 west
b) 1 West

21. 1,000,000 - 346,267
653,733
d) 653,733

22. $3\,m \times 4\,m \times 5\,m = 60\,m^3$
c) 60

23 20 - 2.5 = 17.5
17.5 + .2 = 17.7
b) 17.7

24 2142 ÷ 357 = 6
Australia
e) NOTA

25 $\frac{13}{4} = 3$ R1

C) 4

26 $4000m \times 13 = 52{,}000$ m

$\frac{52000m}{1} \times \frac{1\ km}{1000\ m} = 52$ km

C) 52 km

27

4	5	6	7	. . .	98	99
-	-3	-3	-3		-3	-3
1	2	3	4		95	96

b) 96

28. Find pairs of numbers that add up to 60

21+39

22+38

23+37

etc.

There are 19 pairs

60 x 19 = 540

b) 540

29 Charlie: $\frac{3000\ m}{600\ s} = 5$ m/s

Grandpa Joe: $\frac{5000\ m}{625\ s} = 8$ m/s

b) Grandpa Joe

30. Add the feet: $7+5+6+3=21$ ft.
Add the inches: $2+9+9+6=26$ in
26 in $=2$ ft. 2 in
21 ft. $+2$ ft. $+2$ in $=23$ ft. 2 in.
a) 23 ft. 2in.