

The Movie Theater Problem

At a movie theater in Windsor Terrace, the price of a child's ticket is half the price of an adult's ticket. Nick and Katie took their three children to see a movie last Friday, and the total cost for the tickets was \$43.75.

What was the price of each child's and each adult's ticket?

~~Kids is 26.25~~
~~Nick is 17.50~~
~~Kids is 8.75~~

10 kids is 20
 26 → 40
 43.75 2 kids is \$20
 -20.00
 23.75 left over

5 | 43.75
 -40
 37
 -35
 25

11 | 23.75
 -22
 17
 -16
 15
 14
 1

Three kids
 8.75
 x 3
 26.25 kids

43.75
 -26.25
 17.50 adults
 8.75
 2 | 17.50
 16
 15
 14
 10

6.25 Kids
 12.50 Nick and Katie

Table

| Kid | adult |
|------|-------|
| 2.00 | 4.00 |
| 5.00 | 10.00 |
| 6.00 | 12.00 |
| 7.00 | 14.00 |
| 6.75 | 13.50 |
| 6.50 | 13.00 |
| 6.25 | 12.50 |

100 Small 10 5
 x 2 x 2
 20 10
 total 30 too small
 18 + 24 42 too small
 21 + 28 49 too big!
 20.75 + 23.00 43.75
 too big
 18.75 + 25.00 43.75

20.25 13.50 6.75 2.75
 x 2 x 2 x 3
 40.50 27.00 13.50 20.25

6.50 6.50 13.00 6.25
 x 2 x 3 x 2 x 2
 13.00 19.50 26.00 12.50

Natasha

The Movie Theater Problem

At a movie theater in Windsor Terrace, the price of a child's ticket is half the price of an adult's ticket. Nick and Katie (both adults) took their three children to see a movie yesterday, and the total for all the tickets was \$43.75. What was the price of each child's ticket?

Please show all your work.

Handwritten work includes:

- 12 x 2 = 24
- 43.75 - 38.00 = 5.75
- 24.00 2A, 12.00 K, 12.00 K, 48.00
- 15.00, 15.00, 7.50, 7.50, 7.50, 30.50
- 14.00, 14.00, 7.00, 7.00, 7.00, 49.00
- 13.00, 13.00, 6.50, 6.50, 6.50, 45.50
- 12.00, 12.00, 6.00, 6.00, 6.00, 42.00
- 7.50 x 3 = 22.50, 45.00, 67.50
- 3.50 x 3 = 10.50
- 43.75 - 10.50 = 33.25, 33.25 / 3 = 11.75
- 12.00 x 3 = 36.00
- 43.75 - 19.00 = 24.75, 24.75 / 2 = 12.375
- 43.75 - 48.00 = 07.75
- 2.75 x 3 = 7.25
- 43.75 - 17.25 = 26.50, 26.50 / 2 = 13.25
- 9 x 3 = 18
- 2.75 for each child's tickets

Rita

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Please show all your work.

$$\begin{array}{r} \text{Nick} \\ \hline 12.50 \end{array}$$

$$\begin{array}{r} \text{Katie} \\ \hline 12.50 \end{array}$$

$$\begin{array}{r} 1 \\ \hline 6.25 \end{array}$$

$$\begin{array}{r} 2 \\ \hline 12.50 \end{array}$$

$$\begin{array}{r} 12.50 \\ 12.50 \\ \hline 25.00 \end{array}$$

$$\begin{array}{r} 6.25 \\ 6.25 \\ \hline 12.50 \end{array}$$

$$\begin{array}{r} 6.25 \times 3 \\ 18.75 \\ 25.00 \\ \hline 43.75 \end{array}$$

$$\begin{array}{r} 6.25 \\ 6.25 \\ 12.50 \\ 12.50 \\ \hline 37.50 \end{array}$$

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Please show all your work.

(Handwritten student solutions follow)

At a movie theater in Windsor Terrace, the price of a child's ticket is half the price of an adult's ticket. Nick and Katie (both adults) took their three children to see a movie yesterday, and the total for all the tickets was \$43.75. What was the price of each child's ticket?

Please show all your work.

[illegible]

(5) H-line Basics through (No point)

ordered & A-der a row and (5-0-)

will find the time (0.5-11.6

17.50 (100)

25.00 6-25 8 I S
6-25
2.25

To solve either way $\frac{z-x}{x} = \frac{(y)}{(x)}$ + 51 (A)

or $\frac{z-x}{x} = \frac{(y)}{(x)}$ - 51 (B)

2.1
6.25
 $\times 3$

18.75
25.00

43.75

12.60
12.60
25.20

• 6.30
6.25-30
6.30

18.90
25.20

44.10

Edith

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Please show all your work.

$\frac{1}{2}$

2 adults
3 child

43.75

21.87

2 $\overline{) 43.75}$
03
17
15
0

10.93

3 $\overline{) 43.75}$
13
17
25
21
4

14.56

14.56

29.12

7.23

7.23

7.23

50.81

10

13.56

13.56

27.12

6.23

6.23

6.23

45.81

50.81

43.87

06.94

45.81

43.75

02.06

13.55

13.55

27.10

6.22

6.22

6.22

45.76

5 $\overline{) 2.06}$
0.06
1

12

12

24

18

42

20.31

2 $\overline{) 13.55}$
15
15

6.77

6.77

6.77

20.31

2 $\overline{) 13.55}$
15
15

6.25

6.25

6.25

18.75

24

24

43.75

12.50

12.50

25.00

25.00

18.75

43.75

10.93

2 $\overline{) 21.87}$
018
01
1

14.56

14.56

29.12

7.23

7.23

7.23

50.81

10

13.56

13.56

27.12

6.23

6.23

6.23

45.81

50.81

43.87

06.94

45.81

43.75

02.06

13.55

13.55

27.10

6.22

6.22

6.22

45.76

5 $\overline{) 2.06}$
0.06
1

12

12

24

18

42

20.31

2 $\overline{) 13.55}$
15
15

6.77

6.77

6.77

20.31

2 $\overline{) 13.55}$
15
15

6.25

6.25

6.25

18.75

24

24

43.75

12.50

12.50

25.00

25.00

18.75

43.75

10.93

2 $\overline{) 21.87}$
018
01
1

14.56

14.56

29.12

7.23

7.23

7.23

50.81

10

13.56

13.56

27.12

6.23

6.23

6.23

45.81

50.81

43.87

06.94

45.81

43.75

02.06

Delphine

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At a movie theater in Windsor Terrace, the price of a child's ticket is half the price of an adult's ticket. Nick and Katie (both adults) took their three children to see a movie yesterday, and the total for all the tickets was \$43.75. What was the price of each child's ticket?

Please show all your work.

Handwritten work showing calculations for the movie theater problem. The calculations include:

- Initial calculations at the top right:

$$\begin{array}{r} 1250 \\ 1250 \\ \hline 625 \\ 625 \\ 625 \\ \hline 1875 \end{array}$$

$$\begin{array}{r} 12 \\ 12 \\ \hline 18 \\ 42 \end{array}$$

$$\begin{array}{r} 1875 \\ 25 \\ \hline 4375 \end{array}$$
- Calculations for the total price of 5 tickets:

$$\begin{array}{r} 8.00 \\ 8.00 \\ 8.00 \\ 8.00 \\ 8.00 \\ \hline 40.00 \end{array}$$

$$\begin{array}{r} 10.00 \\ 10 \\ \hline 15 \\ 25 \end{array}$$

$$\begin{array}{r} 18.00 \\ 18.00 \\ \hline 36.00 \\ 2.50 \\ \hline 38.50 \\ 7.50 \\ \hline 46.00 \\ 2.25 \\ \hline 48.25 \end{array}$$

$$\begin{array}{r} 250 \\ \times 3 \\ \hline 750 \end{array}$$

$$\begin{array}{r} 18.00 \text{ adult} \\ 18.00 \\ \hline 36.00 \\ 7.50 \\ \hline 43.50 \end{array}$$
- Calculations for the price of a child's ticket:

$$\begin{array}{r} 8.25 \\ \times 5 \\ \hline 41.25 \end{array}$$

$$\begin{array}{r} 10.00 \\ 10 \\ \hline 15 \\ 25 \end{array}$$

$$\begin{array}{r} 18.00 \\ 18.00 \\ \hline 36.00 \\ 2.50 \\ \hline 38.50 \\ 7.50 \\ \hline 46.00 \\ 2.25 \\ \hline 48.25 \end{array}$$

$$\begin{array}{r} 19.00 \\ 19.00 \\ \hline 38.00 \\ 7.50 \\ \hline 45.50 \end{array}$$
- Final calculations for the price of a child's ticket:

$$\begin{array}{r} 1400 \\ 3 \\ \hline 21 \\ 36 \\ \hline 57 \end{array}$$

$$\begin{array}{r} 650 \\ \times 3 \\ \hline 1950 \end{array}$$

$$\begin{array}{r} 19.00 \\ 19.00 \\ \hline 38.00 \\ 6.75 \\ \hline 44.75 \\ 17.00 \\ \hline 61.75 \end{array}$$

$$\begin{array}{r} 17.00 \\ 17.00 \\ \hline 34.00 \\ 6.45 \\ \hline 40.45 \end{array}$$

$$\begin{array}{r} 225 \\ \times 3 \\ \hline 675 \end{array}$$

Janet

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Please show all your work.

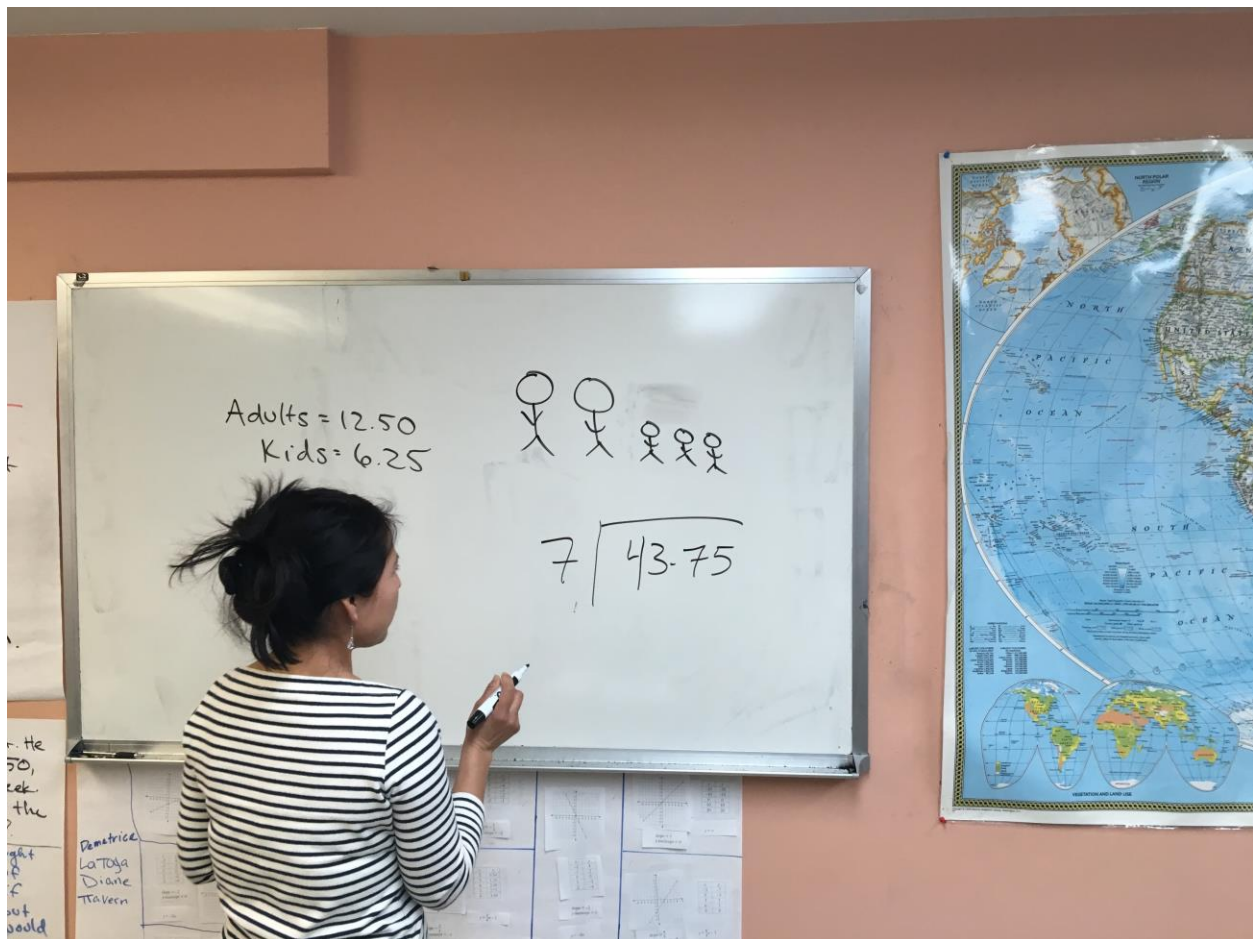
$$\begin{array}{r} 12.48 \\ 12.48 \\ \hline 24.96 \end{array}$$

$$\begin{array}{r} 12.50 \\ 12.50 \\ \hline 25.00 \end{array}$$

$$\begin{array}{r} 6.24 \\ 6.24 \\ 6.24 \\ \hline 18.72 \\ 24.96 \\ \hline 43.68 \end{array}$$

$$\begin{array}{r} 6.25 \\ 6.25 \\ 6.25 \\ \hline 18.75 \\ 25.00 \\ \hline 43.75 \end{array}$$

Francisca's Board Work



Francisca's Board Work, Cont'd

