

First Name:	Last Name:	Grade:
Teacher:	Parent's email:	

## **Trips and Vacations**

Kinder & First Grade: solve at least 3 problems. Second & Third Grade: solve at least 7 problems. Fourth Grade and above: solve at least 12 problems.

A	ns	W	e

		<i>Answer</i>
1.	Liam is going on a plane ride from Seattle to Tokyo, and the flight takes 11 hours. If he has been on the plane for 3 hours already, how many more hours does he need to be on the plane before reaching his destination?  11 hours – 3 hours = 8 hours	8 [hours]
2.	Sarah is packing for a camping trip, and she wants to bring 8 granola bars. She has already packed 2 almond granola bars and 3 peanut butter granola bars into her backpack. How many additional granola bars must she include in her packing?  She packed: 2 + 3 = 5 granola bars.  Since she wants to bring 8 granola bars, she needs to pack 8 – 5 or 3 more ganola bars.	3 [granola bars]
3.	\$6 + \$6 + \$6 = \$18	[\$]18 or 18 dollars
4.	30 – 7 + 1 = 24	24 [passengers]
5.	Half of 24 is 12. So, they need to travel 12 more miles.	12 [miles]
6.	Six hours after 8:45 a.m. is 2:45 p.m. 45 minutes later would be 3:30 p.m.	3:30 PM or 3:30 p.m.
7.	The first train was on 15 minutes earlier than 8:25 a.m. or 8:10 a.m.  Make the list: 8:10 a.m., 8:25 a.m., 8:40 a.m., 8:55 a.m.  9:10 a.m., 9:25 a.m., 9:40 a.m., 9:55 a.m.  10:10 a.m., 10:25 a.m., 10:40 a.m., 10:55 a.m.  There were 12 trains between 8 a.m. and 11 a.m.  Another way:  Between 11 a.m. and 8 a.m. there are 3 hours. Trains go every 15 minutes. Thus, there are 4 trains in 1 hour, and 12 trains in 3 hours.	12 [trains]
8.	Total number of people travelling: 167 + 7 + 18 = 192.	4 [buses]

We can make a table. Number of Number of

The table shows that three buses will not be
enough. Therefore, the fewest number of

buses needed is 4.

Bus **People** 1 48 3 144 192

Use this information to solve the following three problems. The clocks show the times in three cities at the same time.







Sun, 4:30 p.m.

Singapore Sun, 1:30 p.m.

Tokyo Sun, 2:30 p.m.

9.	Since Singapore is 3 hours behind Sydney, Tommy gets the call at $8 - 3 = 5$ p.m.				5:00 p.m. Or 5 PM		
10.	Tokyo is 1 hour ahead Singapore. The 7 hours flight arrived at 6 a.m. Singapore time, which is 7:00 a.m. in Tokyo.				7:00 a.m. or 7 AM		
11.	9 hours and 50 minutes after 10 p.m. is 7:50 a.m. (Tokyo time), which is 9:50 a.m. (Sydney time). Their flight arrives 9:50 a.m. the next day (Dec 17).				December 17 at 9:50 a.m.		
12.	20 liters of gas filled the tank from $1/10$ of its capacity to $\frac{1}{2} = 5/10$ . So, 20 liters correspond to $4/10$ of the tank. $1/10$ of the full tank is $20/4 = 5$ liters of gas; full tank: $5 \times 10 = 50$ liters.				50 [liters]		
13.	There are 29 rows in total (1 has 4 seats; 28 has 6 seats each): $28\times6 + 1\times4 = 172$ seats. One-fourth of the seats are empty: $\frac{1}{2}$ of $172 = 43$ seats				43 [seats]		
14.	One way: make and The two trains will pass each other after the train leaving Kitchener is 40 km away from the Kitchener station. Since the train is going 60 km/hour or noon or 12:40 pm.  Another way: Every hour two train 100÷150 = 2/3 hours Noon plus 40 minute	Time (in min after noon) 10 20 30 40 50 60 r 1 km/min	Distance travelled by the train leaving Kitchener  10  20  30  40  50  60  n, then the trains  0 + 90 = 150 km.  nvert 2/3 hours to	London  15  30  45  60  75  90  begin to pass each			12:40 p.m.
15.	Total distance = 2800 miles Cost of gas: (Total Distance/Miles per Gallon) × price per gallon = 2800/25 × \$4.55 = \$509.60				[\$]509.60		
16.	For the first 2.5 hours: 2.5×55 = 137.5 miles For the next 1.5 hours: 1.5×45 = 67.5 miles  137.5 miles + 67.5 miles = 205 miles				205 [miles]		
17.	<ul> <li>a. How much will they spend on flights in USD? \$760 × 5 = \$3800</li> <li>b. How many Euros will they receive for their U.S. dollars if they exchange \$2,000? \$2000 × 0.94 EUR = 1880 EUR</li> </ul>				a. [\$]3800 b. 1880 [Euros]		
18.	Total distance for roundtrip: $343\times2=686$ miles. The amount of gas needed for the trip: $686\div28=24.5$ gallons. The total cost for the gas: $24.5$ gallons $\times$ \$4.90 = \$120.05				[\$]120.05		

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