Fractions
Interview Screens

These are the questions as they appear on the computer screen. It’s helpful preparation to review the questions, prompts, and explanations before interviewing students.

Fractions Interview Question 1 of 12
Fractions Interview Question 2 of 12

1. Question 2
   - Which is greater, 5/12 or 5/8?

2. Answer
   - Correct (5/8)
   - Incorrect
   - Self-corrected (5/8)
   - Did Not Answer

3. Explanation
   - How did you decide?
     - Converted to common denominators
     - Compared to 1/2 or 50%, or 1 or 100% (e.g., 5/12 is less than 1/2 and 5/8 is greater than 1/2)
     - Explained that eighths are larger than twelfths
     - Converted to decimals or percents
     - Gave other reasonable explanation
     - Guessed, did not explain, or gave faulty explanation

Notes

Record student response

Save and Exit
End Interview

Fractions Interview Question 3 of 12

1. Question 3
   - Which is greater, 7/12 or 2/5?

2. Answer
   - Correct (7/12)
   - Incorrect
   - Self-corrected (7/12)
   - Did Not Answer

3. Explanation
   - How did you decide?
     - Converted to common denominators
     - Compared to 1/2 or 50%, or 1 or 100% (e.g., 7/12 is greater than 1/2 and 2/5 is less than 1/2)
     - Converted to decimals or percents
     - Gave other reasonable explanation
     - Guessed, did not explain, or gave faulty explanation

Save and Exit
End Interview

Not Done  Incomplete  Done  Current
Fractions Interview Question 4 of 12

1. Question 4
   Is the answer to $11/12 + 1/5$ greater than 1 or less than 1?

2. Answer
   - Correct (greater)
   - Incorrect
   - Self-corrected (greater)
   - Did Not Answer

3. Explanation
   - Converted to common denominators
   - Explained that $11/12$ is $1/12$ away from 1 and $1/5$ is greater than $1/12$
   - Reasoned with decimals or percents
   - Gave other reasonable explanation
   - Guessed, did not explain, or gave faulty explanation

Notes

Save and Exit
End Interview

Fractions Interview Question 5 of 12

1. Question 5
   For this problem, don't figure out the exact answer. Decide which of these choices is the best estimate for $8/9 + 12/13$: $1/2$, 1, 2, or 8?

2. Answer
   - Correct (2)
   - Incorrect
   - Self-corrected (2)
   - Did Not Answer

3. Explanation
   - Rounded one or both fractions to 1 and then added
   - Analyzed choices and chose one that seemed most reasonable
   - Gave other reasonable explanation
   - Guessed, did not explain, or gave faulty explanation

Notes

Save and Exit
End Interview
Fractions Interview Question 6 of 12

Question 6
Is the answer to $1 \frac{3}{8} - 4/5$ greater than 1 or less than 1?

Explaination
How did you decide?
- Converted to common denominators
- Explained that $4/5$ is close to 1, and $3/8$ is less than 1/2, so answer must be less than 1
- Explained that $4/5$ is greater than $3/8$, so answer must be less than 1
- Explained that $3/8$ is less than $1/2$ and $4/5$ is greater than $1/2$
- Reasoned with decimals or percents
- Gave other reasonable explanation
- Guessed, did not explain, or gave faulty explanation

Notes
Record student response

Fractions Interview Question 7 of 12

Question 7
Figure out the missing number.

Explaination
How did you figure out the answer?
- Used standard algorithm to subtract
- Subtracted without using standard algorithm (e.g., $2 1/2 - 1/2$ and then $2 - 1/4$)
- Added up (e.g., $3/4 + 1/4$ and then $1 + 1 1/2$)
- Gave other reasonable explanation
- Guessed, did not explain, or gave faulty explanation

Notes
Record student response
Fractions Interview Question 8 of 12

1. Question 8
What is 3 1/2 times 2?

3 1/2 \times 2

2. Answer
- Correct (7 or 14/2)
- Incorrect
- Self-corrected (7 or 14/2)
- Did Not Answer

3. Explanation
How did you figure out the answer?
- Used standard algorithm to multiply
- Converted to decimals
- Figured 3 \times 2 (or 3 x 3) = 6, 1/2 \times 2 (or 1/2 + 1/2) = 1, and then added 6 + 1
- Gave other reasonable explanation
- Guessed, did not explain, or gave faulty explanation

Notes
Record student response

Fractions Interview Question 9 of 12

1. Question 9
Figure out the missing number.

1 \frac{1}{2} \times \_ = 6

2. Answer
- Correct (4)
- Incorrect
- Self-corrected (4)
- Did Not Answer

3. Explanation
How did you figure out the answer?
- Used standard algorithm to divide
- Multiplied 4 \times 1 = 4 and then 4 \times 1/2 = 2
- Multiplied 1 1/2 \times 2 and then doubled to get 4
- Added (1 1/2 + 1 1/2 + 1 1/2 = 6)
- Used trial and error
- Converted to decimals
- Gave other reasonable explanation
- Guessed, did not explain, or gave faulty explanation

Notes
Record student response

Save and Exit  
End Interview

Done
Not Done
Incompletes
Current

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Question 10
Carlos lives 3/4 of a mile from school. Terrell lives 6/8 of a mile from school. Which of these is correct? Both boys live the same distance from school. One boy lives farther from school.

Explanation
How did you decide?
- Explained that the fractions are equivalent
- Multiplied or divided numerator and denominator by same number
- Reasoned with decimals or percents
- Gave other reasonable explanation
- Guessed, did not explain, or gave faulty explanation

Question 11
James baked three kinds of cookies. He used 3/4 cup of sugar for each kind. How much sugar did he use altogether? Figure it out in your head or use paper and pencil.

Explanation
How did you figure out the answer?
- Added 3/4 + 3/4 + 3/4
- Multiplied 3 x 3/4
- Added 1 + 1 + 1 and then subtracted 3/4
- Reasoned with decimals or percents
- Gave other reasonable explanation
- Guessed, did not explain, or gave faulty explanation
Fractions Interview Question 12 of 12

**Question 12**

Here is another word problem. I have 2 1/2 pounds of hamburger meat. Each hamburger uses 1/4 of a pound. How many hamburgers can I make? Figure it out in your head or use paper and pencil.

**Answer**

- Correct (10 Hamburgers)
- Incorrect [Blank]
- Self-corrected (10 Hamburgers)
- Did Not Answer

**Explanation**

- Used standard algorithm to divide
- Calculated the number of 1/4s in 2 1/2 pounds
- Converted 2 1/2 to 10/4
- Reasoned with decimals or percents
- Gave other reasonable explanation
- Guessed, did not explain, or gave faulty explanation

**Notes**

Record student response