

PSAT 8/9 Math Examples

Keep

1. $5.824 - 5.47 =$

$$\begin{array}{r} 5.824 \\ -5.47 \\ \hline .354 \end{array}$$

(No zero before decimal)

1

.	3	5	4
<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	1	1	1
2	2	2	2
3	<input checked="" type="radio"/>	3	3
4	4	4	<input checked="" type="radio"/>
5	5	<input checked="" type="radio"/>	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

2. $2.83 - 2.67 =$

$$\begin{array}{r} 2.83 \\ -2.67 \\ \hline .16 \end{array}$$

(No zero before decimal)

2

.	1	6	
<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	<input checked="" type="radio"/>	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	<input checked="" type="radio"/>	6
7	7	7	7
8	8	8	8
9	9	9	9

3. $\frac{2}{3} + \frac{1}{4} + \frac{5}{6} =$

$$\begin{aligned} \frac{2}{3} + \frac{1}{4} + \frac{5}{6} &= \frac{8}{12} + \frac{3}{12} + \frac{10}{12} \\ &= \frac{21}{12} = \boxed{\frac{7}{4} \text{ or } 1.75} \end{aligned}$$

(No! $\frac{1}{4}$ or $\frac{21}{12}$
• Mixed #'s - No)

3

7	1	4	
<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	<input checked="" type="radio"/>	4
5	5	5	5
6	6	6	6
<input checked="" type="radio"/>	7	7	7
8	8	8	8
9	9	9	9

PSAT 8/9 Math Examples

4. $1\frac{3}{17} + 2\frac{5}{17} =$

$$1\frac{3}{17} + 2\frac{5}{17} = 3\frac{8}{17}$$

(No mixed #'s
 $\frac{59}{17}$ not enough room
 So.... 3.47
 round to nearest hundredth)

$$= \frac{59}{17}$$

$$= 3.4705$$

$$= \boxed{3.47}$$

(4)

3	.	4	7
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
(1)	(1)	(1)	(1)
(2)	(2)	(2)	(2)
<input checked="" type="radio"/>	(3)	(3)	(3)
(4)	(4)	<input checked="" type="radio"/>	(4)
(5)	(5)	(5)	(5)
(6)	(6)	(6)	(6)
(7)	(7)	(7)	<input checked="" type="radio"/>
(8)	(8)	(8)	(8)
(9)	(9)	(9)	(9)

5. If each guest at a party eats $\frac{2}{3}$ of a small pizza, how many guests would finish 12 small pizzas?

$$\frac{2}{3} \cdot \frac{12}{1} = 8$$

(place any where)

(5)

8			
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
(1)	(1)	(1)	(1)
(2)	(2)	(2)	(2)
(3)	(3)	(3)	(3)
(4)	(4)	(4)	(4)
(5)	(5)	(5)	(5)
(6)	(6)	(6)	(6)
(7)	(7)	(7)	(7)
<input checked="" type="radio"/>	(8)	(8)	(8)
(9)	(9)	(9)	(9)

6. Name a composite number that is less than 10?

Answers: 4, 6, 8, 9

(Choose one solution)
 (place any where)

(6)

4			
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
(1)	(1)	(1)	(1)
(2)	(2)	(2)	(2)
(3)	(3)	(3)	(3)
<input checked="" type="radio"/>	(4)	(4)	(4)
(5)	(5)	(5)	(5)
(6)	(6)	(6)	(6)
(7)	(7)	(7)	(7)
(8)	(8)	(8)	(8)
(9)	(9)	(9)	(9)

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①

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②

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	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

3. $2/3 + 1/4 + 5/6 =$

③

<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	1	1	1
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3	3	3	3
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4

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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
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5. If each guest at a party eats $\frac{2}{3}$ of a small pizza, how many guests would finish 12 small pizzas?

5

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

6. Name a composite number that is less than 10?

6

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
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9	9	9	9