Name : _____

Evaluating Permutations

L2S1

Evaluate the following.

1) $\dfrac{P(18, 5)}{14P(16, 2)} + P(45, 1)$

2) $\dfrac{P(20, 15) \times P(19, 13)}{P(17, 12) \times P(21, 15)}$

3) $\dfrac{800}{P(7, 4)} - P(10, 4) + P(7, 7)$

4) $\dfrac{81(P(9, 3) + 4P(54, 1))}{P(6, 5) - P(8, 6)}$

5) $\dfrac{P(31, 2) - P(26, 2)}{P(28, 1)}$

6) $\dfrac{P(73, 68)}{30P(72, 67)} + \dfrac{2!}{P(5, 3)}$

Name : _____

Answer key

Evaluating Permutations

L2S1

Evaluate the following.

1) $\dfrac{P(18, 5)}{14P(16, 2)} + P(45, 1)$

351

2) $\dfrac{P(20, 15) \times P(19, 13)}{P(17, 12) \times P(21, 15)}$

$\dfrac{114}{7}$ or $16\dfrac{2}{7}$

3) $\dfrac{800}{P(7, 4)} - P(10, 4) + P(7, 7)$

$\dfrac{20}{21}$

4) $\dfrac{81(P(9, 3) + 4P(54, 1))}{P(6, 5) - P(8, 6)}$

–3

5) $\dfrac{P(31, 2) - P(26, 2)}{P(28, 1)}$

10

6) $\dfrac{P(73, 68)}{30P(72, 67)} + \dfrac{2!}{P(5, 3)}$

$\dfrac{37}{15}$ or $2\dfrac{7}{15}$

Name : _____

Evaluating Permutations

L2S2

Evaluate the following.

1) $\dfrac{P(28, 24)}{P(27, 23) \times P(14, 1)} + 5P(1, 1)$

2) $\dfrac{P(55, 19)}{P(54, 18)} + 3!\ 4!$

3) $\dfrac{P(12, 6) \times P($ $P(18, 1$ $- \dfrac{P(36, 23)}{P(35, 22)}$

5) $\dfrac{P(9, 4)}{P(8, 5) - P(8$ $6, 6) + P(4, 2))$ $5, 4) + P(3, 3))}$

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

Name : _____

Answer key

Evaluating Permutations

L2S2

Evaluate the following.

1) $\dfrac{P(28, 24)}{P(27, 23) \times P(14, 1)} + 5P(1, 1)$

2) $\dfrac{P(55, 19)}{P(54, 18)} + 3!\ 4!$

7

3) $\dfrac{P(12, 6) \times P($ $P(18, 1$ $- \dfrac{P(36, 23)}{P(35, 22)}$

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

133

5) $\dfrac{P(9, 4)}{P(8, 5) - P(8$ $6, 6) + P(4, 2))}{5, 4) + P(3, 3))}$

$\frac{189}{25}$ or $7\frac{14}{25}$

$\frac{9}{7}$ or $1\frac{2}{7}$

Name : _____

Evaluating Permutations

L2S3

Evaluate the following.

1) $\dfrac{P(16, 1) \times P(2, 2)}{P(3, 2) + P(5, 5)}$

2) $\dfrac{-P(4, 3) - P(7, 5)}{24P(48, 1)} \times P(5, 4)$

3) $\dfrac{104P(53, 47}{P(53, 46)}$ $\dfrac{16)}{15)} + P(6, 2)$

5) $\dfrac{600 - P(8,}{P(7, 6) - P(1}$ $+ \dfrac{P(15, 8)}{P(14, 7)}$

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

Name : _____

Answer key

Evaluating Permutations

L2S3

Evaluate the following.

1) $\dfrac{P(16, 1) \times P(2, 2)}{P(3, 2) + P(5, 5)}$

2) $\dfrac{-P(4, 3) - P(7, 5)}{24P(48, 1)} \times P(5, 4)$

16/63

3) $\dfrac{104P(53, 47}{P(53, 46)}$ $\dfrac{16)}{15)} + P(6, 2)$

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

728

5) $\dfrac{600 - P(8,}{P(7, 6) - P(1}$ $+ \dfrac{P(15, 8)}{P(14, 7)}$

$-\dfrac{1}{4}$

428

Name : _____

Evaluating Permutations

L2S4

Evaluate the following.

1) $\dfrac{2P(42, 1) - P(34, 1)}{P(11, 2) - P(5, 2)}$

2) $\dfrac{P(9, 5) - P(8, 6)}{P(4, 3) + P(7, 4) - 24}$

3) $\dfrac{P(12,}{720(-2P(4,}$ $\dfrac{\text{9, 24)}}{\text{– P(9, 3))}} - \dfrac{31}{384}$

5) $\dfrac{P(7, 3)}{30} + \dfrac{}{P}$ $\dfrac{}{\text{19, 2)}}$

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

Name : _____

Answer key

Evaluating Permutations

L2S4

Evaluate the following.

1) $\dfrac{2P(42, 1) - P(34, 1)}{P(11, 2) - P(5, 2)}$

2) $\dfrac{P(9, 5) - P(8, 6)}{P(4, 3) + P(7, 4) - 24}$

5/9

3) $\dfrac{P(12,}{720(-2P(4,}$ $\dfrac{\text{9, 24)}}{\text{– P(9, 3))}} - \dfrac{31}{384}$

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

–528

5) $\dfrac{P(7, 3)}{30} + \dfrac{}{P}$ $\dfrac{}{\text{19, 2)}}$

$\frac{36}{5}$ or $7\frac{1}{5}$

3

Name : _____

Evaluating Permutations

L2S5

Evaluate the following.

1) $21 + \dfrac{P(76, 9)}{38P(75, 8)}$

2) $\dfrac{P(7, 2) - P(66, 1)}{P(6, 6) \times P(4, 4)}$

3) $\dfrac{P(9, 3) + P(8}{P(12, 2) -}$ $\times P(52, 39)$

5) $\dfrac{P(11, 5) + P(}{155}$ $\dfrac{P(96, 80)}{P(97, 81)}$

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

Name : _____

Answer key

Evaluating Permutations

L2S5

Evaluate the following.

1) $21 + \dfrac{P(76, 9)}{38P(75, 8)}$

2) $\dfrac{P(7, 2) - P(66, 1)}{P(6, 6) \times P(4, 4)}$

23

3) $\dfrac{P(9, 3) + P(8}{P(12, 2) -}$ $\times$ P(52, 39)

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

15

5) $\dfrac{P(11, 5) + P(}{155}$ $\dfrac{P(96, 80)}{P(97, 81)}$

360

$\dfrac{290}{97}$ or $2\dfrac{96}{97}$