

Teach payout math in 20 minutes

Two equivalent-format worksheets, answer key and a student progress card.

Before the lesson

Print pages 2 and 3 for students. Keep page 4 as the instructor key. Use play chips or paper amounts only. This kit teaches arithmetic, not casino operating procedures or certification.

0-4 minutes | Explain the two numbers

Net result is the profit or loss after accounting for every chip committed. Total returned is the money handed back, including the stake. A \$10 natural blackjack paying 3:2 has \$15 net winnings and \$25 total returned.

4-6 minutes | Demonstrate the exceptions

A winning \$10 double commits \$20: net +\$20, returned \$40. A lost double returns \$0 and loses \$20. A push returns the stake with net \$0. Accepted late surrender returns half the original stake.

6-11 minutes | Worksheet A, accuracy first

Ask students to complete both columns without a timer. Let them write a formula alongside any difficult answer. For insurance rows, the listed amount is the separate insurance stake; the main hand is not included.

11-15 minutes | Review errors

Award one point per correct column: 40 points per form. Separate payout-ratio errors from stake-accounting errors. Explain why a returned stake is not a second profit. Actual chip rounding is outside this exercise.

15-20 minutes | Worksheet B and practice

Use form B as a fresh attempt after feedback. Record accuracy before adding time pressure. Then open the payout practice drill on the calculator page; its dealer mode is an optional speed exercise, not a pass/fail employment test.

Payout worksheet A

Name: _____ Date: _____ Score: ____ / 40

Blackjacks and insurance win. Doubles show the original bet; insurance shows its separate stake. Write the signed net result and total returned. Ignore chip rounding.

#	Outcome	Stake	Net result	Returned
1	Natural blackjack, 3:2	\$5.00	_____	_____
2	Natural blackjack, 6:5	\$10.00	_____	_____
3	Natural blackjack, 3:2	\$15.00	_____	_____
4	Natural blackjack, 6:5	\$25.00	_____	_____
5	Natural blackjack, 3:2	\$35.00	_____	_____
6	Natural blackjack, 6:5	\$45.00	_____	_____
7	Natural blackjack, 3:2	\$50.00	_____	_____
8	Natural blackjack, 6:5	\$75.00	_____	_____
9	Natural blackjack, 3:2	\$100.00	_____	_____
10	Insurance wins, 2:1	\$12.50	_____	_____
11	Regular win, 1:1	\$30.00	_____	_____
12	Double and win	\$25.00	_____	_____
13	Double and lose	\$15.00	_____	_____
14	Ordinary hand pushes	\$40.00	_____	_____
15	Ordinary hand loses	\$20.00	_____	_____
16	Late surrender accepted	\$50.00	_____	_____
17	Natural blackjack, 3:2	\$55.00	_____	_____
18	Natural blackjack, 6:5	\$60.00	_____	_____
19	Double and win	\$35.00	_____	_____
20	Insurance wins, 2:1	\$20.00	_____	_____

Check: net result + all stakes committed = total returned. A loss needs a minus sign.

Payout worksheet B

Name: _____ Date: _____ Score: ____ / 40

Blackjacks and insurance win. Doubles show the original bet; insurance shows its separate stake. Write the signed net result and total returned. Ignore chip rounding.

#	Outcome	Stake	Net result	Returned
1	Natural blackjack, 3:2	\$10.00	_____	_____
2	Natural blackjack, 6:5	\$15.00	_____	_____
3	Natural blackjack, 3:2	\$25.00	_____	_____
4	Natural blackjack, 6:5	\$35.00	_____	_____
5	Natural blackjack, 3:2	\$45.00	_____	_____
6	Natural blackjack, 6:5	\$50.00	_____	_____
7	Natural blackjack, 3:2	\$75.00	_____	_____
8	Natural blackjack, 6:5	\$100.00	_____	_____
9	Natural blackjack, 3:2	\$125.00	_____	_____
10	Insurance wins, 2:1	\$7.50	_____	_____
11	Regular win, 1:1	\$45.00	_____	_____
12	Double and win	\$20.00	_____	_____
13	Double and lose	\$25.00	_____	_____
14	Ordinary hand pushes	\$60.00	_____	_____
15	Ordinary hand loses	\$35.00	_____	_____
16	Late surrender accepted	\$30.00	_____	_____
17	Natural blackjack, 3:2	\$65.00	_____	_____
18	Natural blackjack, 6:5	\$80.00	_____	_____
19	Double and win	\$45.00	_____	_____
20	Insurance wins, 2:1	\$15.00	_____	_____

Check: net result + all stakes committed = total returned. A loss needs a minus sign.

Answers and teaching notes

Print separately from the student worksheets. All amounts are dollars.

#	A: net result	A: returned	B: net result	B: returned
1	+7.50	12.50	+15.00	25.00
2	+12.00	22.00	+18.00	33.00
3	+22.50	37.50	+37.50	62.50
4	+30.00	55.00	+42.00	77.00
5	+52.50	87.50	+67.50	112.50
6	+54.00	99.00	+60.00	110.00
7	+75.00	125.00	+112.50	187.50
8	+90.00	165.00	+120.00	220.00
9	+150.00	250.00	+187.50	312.50
10	+25.00	37.50	+15.00	22.50
11	+30.00	60.00	+45.00	90.00
12	+50.00	100.00	+40.00	80.00
13	-30.00	0.00	-50.00	0.00
14	+0.00	40.00	+0.00	60.00
15	-20.00	0.00	-35.00	0.00
16	-25.00	25.00	-15.00	15.00
17	+82.50	137.50	+97.50	162.50
18	+72.00	132.00	+96.00	176.00
19	+70.00	140.00	+90.00	180.00
20	+40.00	60.00	+30.00	45.00

Rows 12 and 19: a winning double returns four times the original bet, with net profit twice it.

Row 13: a losing double loses both stakes. Row 14: a push returns the original stake.

Row 16: accepted late surrender loses half. Insurance rows exclude the main hand entirely.

Accuracy before speed

Name: _____ Instructor: _____

My starting point

Form A: _____ / 40 Time (optional): _____ Date: _____

My second attempt

Form B: _____ / 40 Time (optional): _____ Date: _____

The error I need to fix

- ☐ Payout ratio ☐ Returning the original stake ☐ Double stake
☐ Push or loss ☐ Surrender ☐ Insurance is a separate wager

Explain one corrected answer

Outcome and stake: _____

My calculation: _____

Why my first answer differed: _____

Next practice

Rework missed items without a timer. Then use the online payout practice. Compare your own accuracy across attempts; these scores are not a casino qualification.

Online lesson and sharing

blackjackoddstrainer.com/blackjack-payout-calculator/#practice

No student account is required. This paper scorecard stays with you; the website does not collect these written results.

Reuse and feedback

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